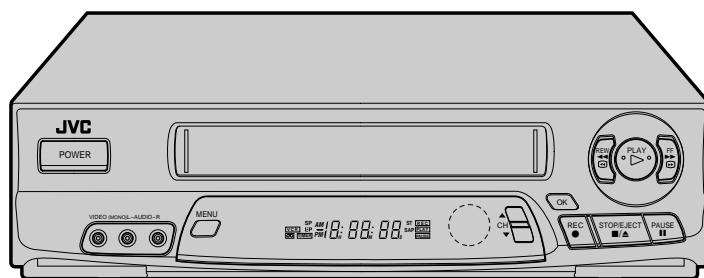


JVC



VIDEO CASSETTE RECORDER

HR-A63U (Hi-Fi) HR-A43U (Monaural)



Hi-Fi **VHS**

The VCR illustrations appearing in this instruction manual are of the HR-A63U.

INSTRUCTIONS

For Customer Use:

Enter below the Serial No. which is located on the rear of cabinet. Retain this information for future reference.

Model No. HR-A63U/HR-A43U

Serial No.

Dear Customer,

Thank you for purchasing the JVC VHS video cassette recorder. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of your new VCR.

CAUTIONS

**CAUTION**RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION:

This video cassette recorder should be used with AC 120V~, 60Hz only.

To prevent electric shocks and fire hazards, DO NOT use any other power source.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE
BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION:

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE
LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE
CORRESPONDANTE DE LA PRISE ET POUSSER
JUSQU'AU FOND.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

CAUTION:

Changes or modifications not approved by JVC could void user's authority to operate the equipment.

Failure to heed the following precautions may result in damage to the VCR, remote control or video cassette.

1. DO NOT place the VCR . . .

... in an environment prone to extreme temperatures or humidity.

... in direct sunlight.

... in a dusty environment.

... in an environment where strong magnetic fields are generated.

... on a surface that is unstable or subject to vibration.

2. DO NOT block the VCR's ventilation openings.**3. DO NOT place heavy objects on the VCR or remote control.****4. DO NOT place anything which might spill on top of the VCR or remote control.****5. AVOID violent shocks to the VCR during transport.******MOISTURE CONDENSATION**

Moisture in the air will condense on the VCR when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the VCR's power turned on for a few hours to let the moisture dry before inserting a tape.

****ABOUT HEAD CLEANING**

Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.



■ Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, only "VHS" recordings can be played back in this model.

■ HQ VHS is compatible with existing VHS equipment.

IMPORTANT PRODUCT SAFETY INSTRUCTIONS

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

ATTENTION:

Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this booklet for future reference.

INSTALLATION

1. Grounding or Polarization

(A) Your product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

(B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

2. Power Sources

Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

3. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

4. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

5. Ventilation

Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
- Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

6. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

ANTENNA INSTALLATION INSTRUCTIONS

1. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

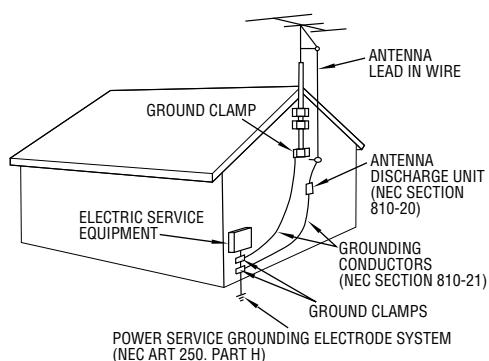
2. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

3. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



NEC – NATIONAL ELECTRICAL CODE

USE

1. Accessories

To avoid personal injury:

- Do not place this product on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
- Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
- Use a mounting accessory recommended by the manufacturer and follow the manufacturer's instructions for any mounting of the product.
- Do not try to roll a cart with small casters across thresholds or deep-pile carpets.

2. Product and Cart Combination

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING
(Symbol provided by RETAC)



3. Water and Moisture

Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

4. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

5. Attachments

Do not use attachments not recommended by the manufacturer of this product as they may cause hazards.

6. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

7. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

SERVICING

1. Servicing

If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

2. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance—this indicates a need for service.

3. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

4. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.

HOW TO USE THIS INSTRUCTION MANUAL

- All major sections and subsections are listed in the Table Of Contents on page 5. Use this when searching for information on a specific procedure or feature.
- The Index on pages 40–43 lists frequently-used terms, and the number of the page on which they are used or explained in the manual. This section also illustrates the controls and connections on the front and rear panel, the front display panel and the remote control.
- The mark signals a reference to another page for instructions or related information.
- Operation buttons necessary for the various procedures are clearly indicated through the use of illustrations at the beginning of each major section.

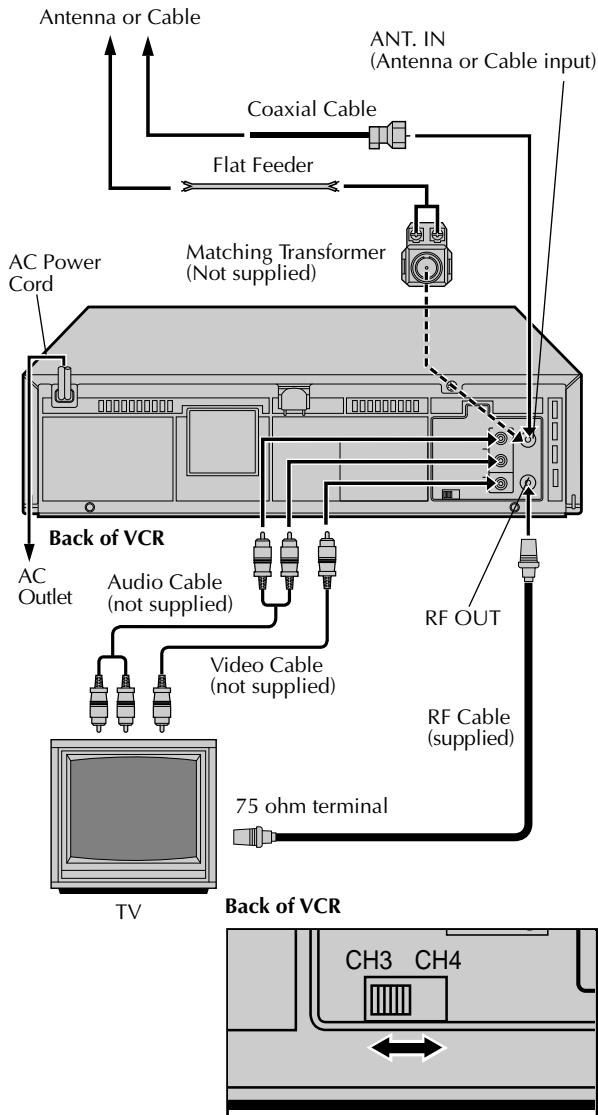
BEFORE YOU INSTALL YOUR NEW VCR . . .

. . . please read the sections/literature listed below.

- "Cautions" on page 2
- "Important Products Safety Instructions" on the previous pages

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Basic Connections



NOTES:

- The VCR channel is the channel on the TV which will display the audio and video signals from the VCR. The VCR's CH3-CH4 switch, on the back of the VCR, sets the VCR channel to CH3 or CH4.
- The CH3-CH4 switch is preset to the CH3 position. Set to CH4 if CH3 is used for broadcasting in your area and set the channel on the TV to correspond to the VCR's CH3-CH4 switch setting.
- If RF connection to TV is used, when switching from VCR to TV mode and from TV to VCR it may be necessary to issue a CH UP and then CH DOWN on TV to obtain a good quality picture.
- Even if you are using AV cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another (pg. 26).
- For full identification of the VCR's rear panel, refer to the Index (REAR VIEW pg. 42).

CHECK CONTENTS

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" (pg. 44).

- 1
- 2
- 3

SITUATE VCR

Place the VCR on a stable, horizontal surface.

CONNECT VCR TO TV

The connection method you use depends on the type of TV you have.

RF Connection

- To Connect To A TV With NO AV Input Terminals . . .
 - a- Disconnect the TV antenna from the TV.
 - b- Connect the TV antenna cable to the ANT. IN jack on the rear of the VCR.
 - c- Connect the supplied RF cable between the RF OUT jack on the rear of the VCR and the TV's antenna terminal. Set TV on CH3 or CH4 corresponding to the CH3 - CH4 switch setting on the back of the VCR.

AV Connection

- To Connect To A TV With AV Input Terminals . . .
 - a- Connect the antenna, VCR and TV as shown in the illustration.
 - b- Connect an Audio/Video Cable between the AUDIO OUT and VIDEO OUT jacks on the rear of the VCR and the AV IN jacks on the TV. Set your TV in video input mode or A/V input mode. Refer to the TV Instruction Manual.

For HR-A43U Owners:

If your TV has AUDIO IN L and R connectors, connect the VCR to the L connector.

- 4

CONNECT VCR TO POWER SOURCE

Connect the power plug to an AC outlet.

- The clock and tuner channels will automatically be set when the antenna is connected and when the AC is first connected to the VCR (pg. 7). (If "Auto" or "CH" is displayed on the front display panel before the VCR is powered on, the clock and tuner channels are being set automatically. Wait for the time to be displayed on the front display panel before powering on the VCR.)

- 5

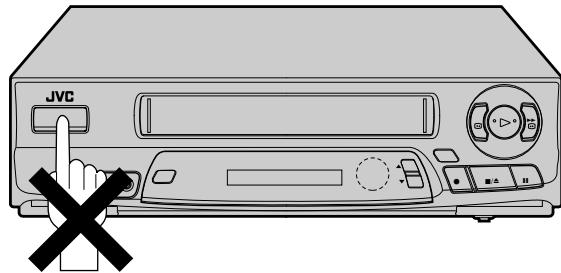
FINAL PREPARATION FOR USE

Power on the VCR and select the VCR channel (3 or 4) by setting the switch on the rear of the VCR as shown in the illustration.

You can now perform simple playback (pg. 15) or simple recording (pg. 16).

Plug & Play

Auto Clock Set/Auto Tuner Set



IMPORTANT

- Don't press any buttons on the VCR or remote while Plug & Play is in progress.
- If you perform Plug & Play successfully, there's no need to perform the Clock (pg. 9) and Tuner (pg. 12) procedures. If, however, you want to add or delete channels, refer to "Add Or Delete A Channel" on page 14.

ATTENTION CABLE BOX SUBSCRIBERS

If you perform the Plug & Play procedure . . .

- Select the PBS channel on your cable box before plugging your VCR's power plug into the AC outlet. (If you have more than one PBS channel, you may have to select an alternative PBS channel if Plug & Play is not successful.)
- If there is no PBS channel in your area, perform the Manual Clock Set procedure (pg. 11).
- For automatic clock adjustment to take place the VCR's power must be off and the cable box must be set to the PBS channel at clock adjustment times.
- If you perform Plug & Play successfully, D.S.T. will be set to "AUTO". At the D.S.T. adjustment time (pg. 11), your VCR's power must be off and your cable box must be set to the host PBS channel in your area for the D.S.T. adjustment to take place. If the clock is not set correctly, change the D.S.T. setting to "ON" or "OFF". See step 9 of Semi-Auto procedure (pg. 10) or step 6 of Manual procedure (pg. 11).

The Plug & Play function sets the clock and tuner channels automatically when power is first connected to the VCR. The antenna cable must be connected for the Plug & Play function. The time and date can be set automatically from clock setting data that is transmitted by one of the regular TV broadcast channels. We call this TV channel the "Host Channel" and it is a PBS channel in your area.

PLUG & PLAY SETUP

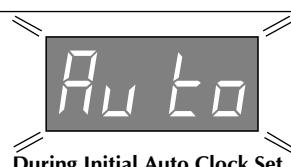
1

Connect the antenna cable to the VCR (pg. 6). Then connect the VCR's power plug to an AC outlet. Do not power on the VCR. The clock and tuner channels will automatically be set.

- Auto clock set is performed first. The auto clock set function scans all the channels received by your VCR to find the Host Channel and then sets the clock. "Auto" blinks on the front display panel during Auto clock set.
- Auto channel set is performed next. The auto channel set function scans all the channels that are receivable by your VCR. It then automatically assigns each receivable channels to the **CH▲▼** buttons. It skips non-receivable channels. During auto channel set the channel numbers are displayed as they are scanned and set.
- When Plug & Play has been completed successfully the correct time is displayed.
- If "AUTO CLOCK SET" or "SEMI-AUTO CLOCK SET" is selected at the Override Auto Clock Set screen on page 10, the clock will be adjusted automatically by the Host PBS every hour on the hour (except for 11:00 PM, midnight, 1:00 AM and 2:00 AM) by the incoming PBS channel clock setting data. (This automatic clock adjustment can only be performed when the VCR's power is turned off. The clock will be adjusted on the hour based on the time displayed on the VCR, not on the actual real time.) The default setting is "AUTO CLOCK SET".
- If an incorrect time is displayed on the front display panel, you may be receiving the clock setting data of a PBS channel from an adjacent time zone, or an incorrect PBS channel from a cable TV system. In this case, perform the Semi-Auto (pg. 10) or Manual Clock Set (pg. 11) procedure. Auto channel set has already taken place and it need not be set again.
- If "- - -" appears on the display, your antenna cable may not be connected to the VCR, there may not be a Host PBS signal available in your area, or your cable box may not be set to the PBS channel. Ensure that the antenna cable is connected correctly. If you use a cable box ensure that your local PBS is selected on your cable box (ATTENTION CABLE BOX SUBSCRIBERS). Then power on and power off the VCR; the Plug & Play function will be automatically reactivated and "Auto" will be displayed on the VCR's front panel. If everything is connected and set correctly, perform the Manual Clock Set procedure (pg. 11). Auto channel set has not yet taken place, so please also perform the "Set Receivable Channels" procedure (pg. 12).

NOTE:

If the memory backup fails, because of a power outage or because the AC was removed from the VCR, Plug & Play will be performed when power is restored to the VCR.



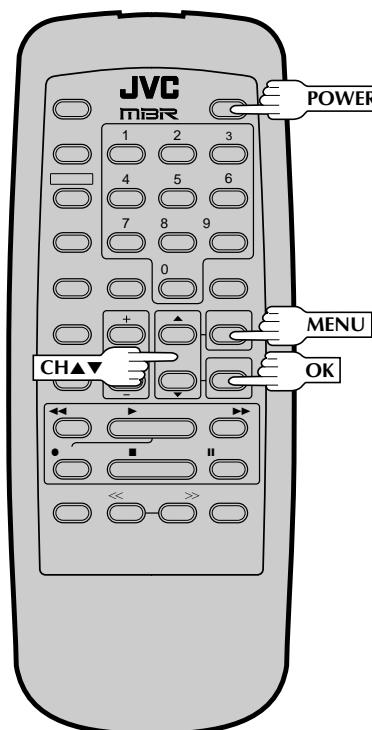
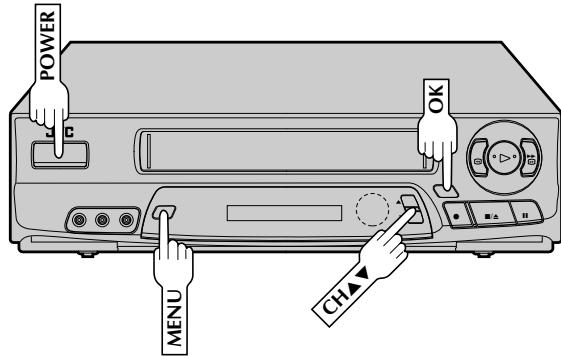
During Auto Channel Set
The channel numbers are displayed as they are scanned and set.



Plug & Play Completed
The current time (including AM/PM) is displayed.

Language

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



This VCR offers you the choice to view on-screen messages in English, Spanish or French (not including messages superimposed on the TV picture). Select the desired language using this procedure. The default setting is "ENGLISH".

TURN ON THE VCR

Press **POWER**.

ACCESS ON-SCREEN MENU

Press **MENU**.

ACCESS CUSTOM SET SCREEN

At the Main Menu screen, move the highlight bar (arrow) to "CUSTOM SET" by pressing **CH▲▼**, then press **OK**.

MAIN MENU
PROGRAM SET
FUNCTION SET
TUNER SET
→ CUSTOM SET
AUTO PICTURE
VIDEO STABILIZER
PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END

3

ACCESS LANGUAGE SELECT SCREEN

4

The messages are preset to appear in English. If you want to see them in Spanish or French, move the highlight bar (arrow) to "LANGUAGE SELECT" by pressing **CH▲▼**, then press **OK**.

CUSTOM SET
OVERRIDE
AUTO CLOCK SET
→ LANGUAGE SELECT
PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END

SELECT LANGUAGE

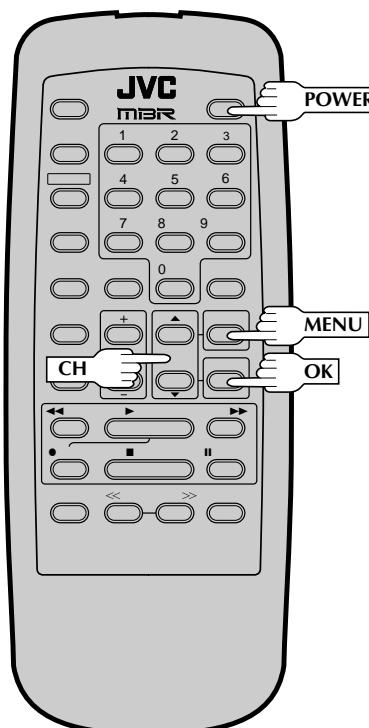
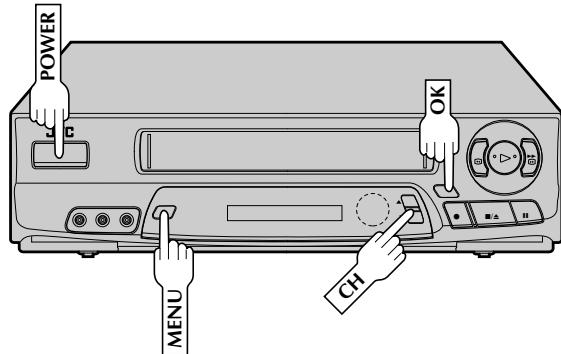
5

At the Language Select screen, move the highlight bar (arrow) to the desired language by pressing **CH▲▼**, then press **MENU** as many times as necessary to return to the normal screen.

LANGUAGE SELECT
→ ENGLISH
ESPAÑOL
FRANÇAIS
PRESS (▲,▼) TO SELECT
PRESS (MENU) TO END

Clock

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



Perform clock setting only if the clock has not been set correctly by the Plug & Play function. Access the Override Auto Clock Set screen to choose the Auto, Semi-Auto or Manual clock setting procedure. Each procedure starts from step 5. *Auto need only be selected if Semi-Auto or Manual had previously been selected.

Preparation

TURN ON THE VCR

Press **POWER**.

1

ACCESS ON-SCREEN MENU

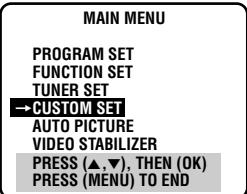
Press **MENU**.

2

ACCESS CUSTOM SET SCREEN

At the Main Menu screen, move the highlight bar (arrow) to "CUSTOM SET" by pressing **CH▲▼**, then press **OK**.

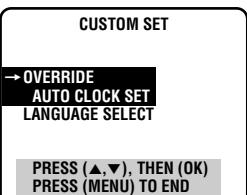
3



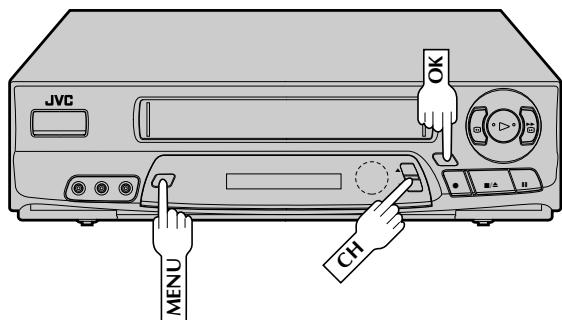
ACCESS CLOCK SET MODE SELECT SCREEN

Move the highlight bar (arrow) at the Custom Set screen to "OVERRIDE AUTO CLOCK SET" by pressing **CH▲▼**, then press **OK**.

4



Semi-Auto



5

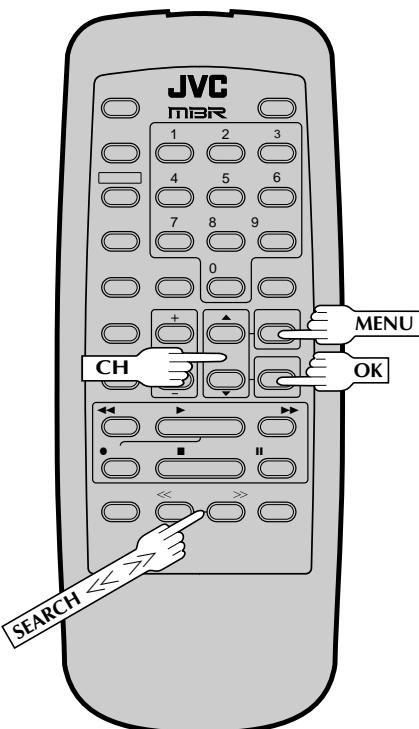
SELECT MODE

At the Override Auto Clock Set screen, move the highlight bar (arrow) to "SEMI-AUTO CLOCK SET" by pressing **CH▲▼**, then press **OK**.

OVERRIDE AUTO CLOCK SET

AUTO CLOCK SET
— **SEMI-AUTO CLOCK SET**
— **MANUAL CLOCK SET**

PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END



6

ACCESS SELECT SCREENS

At the Semi-Auto Clock Set screen, move the highlight bar (arrow) to the desired mode by pressing **CH▲▼**, then press **OK**.

SEMI-AUTO CLOCK SET
→ **HOST CHANNEL SELECT**
TIME ZONE SELECT
D.S.T. SELECT

PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END

To select the Host Channel — step 7

To select the Time Zone — step 8

To select the D.S.T. mode — step 9

NOTE:

The time that has been set previously by the Plug & Play function will be erased when any of the three settings mentioned above is changed.

SELECT HOST CHANNEL

7

You can either select "AUTO", or enter a PBS channel number. For automatic selection, press **MENU** if "AUTO" is highlighted on the Host Channel Select screen. To manually select "AUTO" or the PBS channel, press **CH▲▼** to cycle through "AUTO" or the channel numbers (hold button down to speed through numbers) and stop when the desired number appears. Press **MENU** and the Semi-Auto Clock Set screen reappears.

HOST CHANNEL SELECT

(SATV)
CH AUTO

PRESS (▲,▼) TO SELECT
PRESS (MENU) TO END

NOTES:

- For cable box users: Select "AUTO" or the channel on your VCR that receives the cable box channels, and set the cable box to the PBS channel.
- There are some PBS channels that do not transmit clock setting data.

8

SELECT TIME ZONE

You can select the zone automatically or manually by pressing **CH▲▼**. If an incorrect time is displayed you may be receiving the clock setting data of a PBS channel from an adjacent time zone or from an incorrect PBS channel from a cable TV system. If you selected "AUTO" in step 7 select "MANUAL" and select the correct time zone manually.

TIME ZONE SELECT

→ AUTO
MANUAL

PRESS (▲,▼) TO SELECT
PRESS (MENU) TO END

- If you selected "AUTO", press **MENU** to return to the Semi-Auto Clock Set screen.
- If you selected "MANUAL", press **OK** and the screen to the right appears. Move the highlight bar (arrow) to your choice by pressing **CH▲▼**, then press **MENU** twice to return to the Semi-Auto Clock Set screen.

TIME ZONE SELECT

→ ATLANTIC
EASTERN
CENTRAL
MOUNTAIN
PACIFIC
ALASKA
HAWAII

PRESS (▲,▼) TO SELECT
PRESS (MENU) TO END

9

SELECT D.S.T. MODE

You have three choices:

- a-Select "AUTO" and the adjustment to your VCR's clock will be made according to the incoming signal from the host channel.
- b-Select "ON" and the adjustment will be made based on the clock itself.
- c-Select "OFF" if Daylight Saving Time doesn't apply to you.

Move the highlight bar (arrow) to your choice by pressing **CH▲▼**, then press **MENU** and the Semi-Auto Clock Set screen reappears.

D.S.T. SELECT

→ AUTO
ON
OFF

PRESS (▲,▼) TO SELECT
PRESS (MENU) TO END

IMPORTANT

Turn the VCR off after performing the Semi-Auto Clock Set procedure. "Auto" will appear on the front display panel when the clock is being set. The current time will appear automatically when the clock is set.

Manual

5

SELECT MODE

At the Override Auto Clock Set screen (pg. 10), move the highlight bar (arrow) to "MANUAL CLOCK SET" by pressing **CH▲▼**, then press **OK**.

SET DATE, TIME AND D.S.T.

6

The Manual Clock Set screen is displayed and the month digit begins blinking. Press the appropriate **NUMBER** keys to set the date and time (if only 1 digit, press "0" first). Press **CH▲▼** to set AM/PM and D.S.T. (Daylight Saving Time). Press **OK** after AM/PM and D.S.T. settings.

Set D.S.T. to "ON" to set the D.S.T. according to the VCR's clock or to "OFF" if D.S.T. doesn't apply to you. When you're finished with this set-up procedure, press **MENU** to start the clock.

MANUAL CLOCK SET

DATE 1/ 1/97 WED
TIME 12:00 AM
D.S.T. ON

PRESS NUMBER KEY (0-9)
OR (▲,▼), THEN (OK)
PRESS (MENU) TO END

NOTES:

- **CH▲▼** can be used to perform all operations. (In this case, press **OK** after each setting.)
- At the Manual Clock Set screen, the setting that can be set blinks. When setting of a highlighted item is completed, the highlight bar moves down by 1 line to the next item.

7

MAKE CORRECTIONS

To change any of the settings, press **OK** or **SEARCH <<>>** until the item you want to change blinks, then set as in step 6.

Auto

5

SELECT MODE

At the Override Auto Clock Set screen, move the highlight bar (arrow) to "AUTO CLOCK SET" by pressing **CH▲▼**, then power off the VCR. Do not power it on again until the clock has been adjusted. The clock is automatically adjusted on the hour except at 11:00 PM, midnight, 1:00 AM and 2:00 AM. (The clock will be adjusted on the hour based on the time displayed on the VCR, not on the actual real time.)

**AUTO DAYLIGHT SAVING TIME

This function enables automatic adjustment of the VCR's clock at the start and end of Daylight Saving Time.

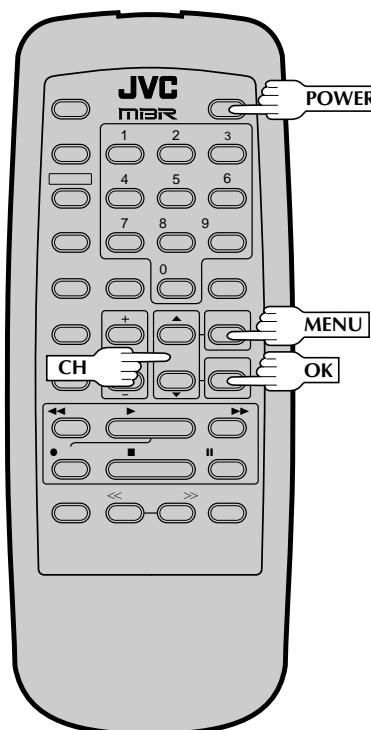
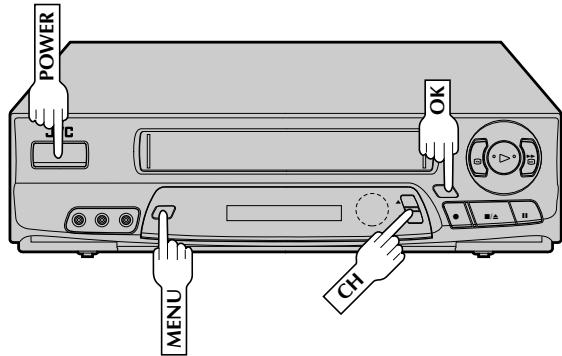
With Auto DST activated, . . .

. . . on the first Sunday of April at 2:00 AM, the clock is adjusted to 3:00 AM.

. . . on the last Sunday of October at 2:00 AM, the clock is adjusted to 1:00 AM.

Tuner

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



Set Receivable Channels

TURN ON THE VCR

Press **POWER**.

1

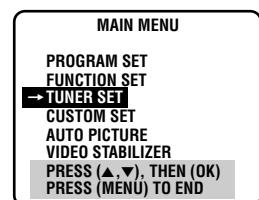
ACCESS MAIN MENU SCREEN

Press **MENU**.

3

ACCESS TUNER SET SCREEN

Move the highlight bar (arrow) to "TUNER SET" by pressing **CH▲▼**, then press **OK**.

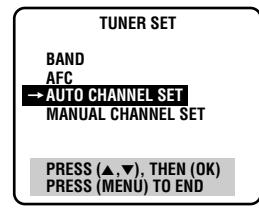


4

PERFORM AUTO CHANNEL SET

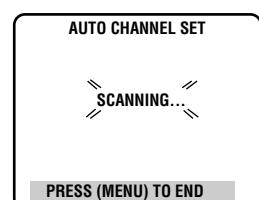
Move the highlight bar (arrow) to "AUTO CHANNEL SET" by pressing **CH▲▼**, then press **OK**.

- Receivable channels in your area are automatically assigned to the **CH▲▼** buttons, and non-receivable channels are skipped.



NOTES:

- At the end of Auto Channel Set, "SCAN COMPLETED" appears on screen.
- If the scan was unsuccessful, "SCAN COMPLETED-NO SIGNAL" appears on screen. Check the connections and start again.



5

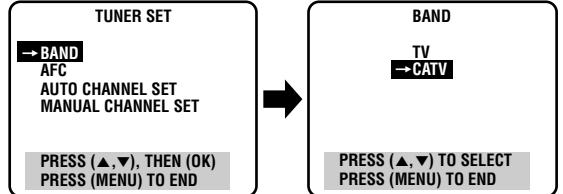
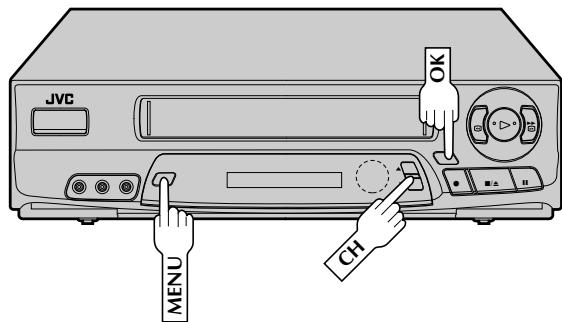
RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

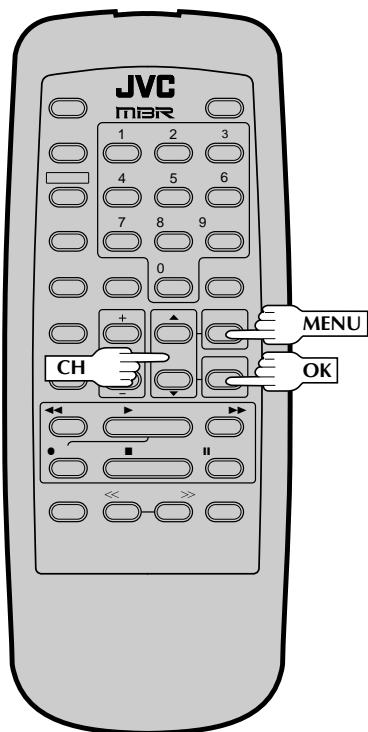
INFORMATION

The VCR detects the band (TV or CATV) and selects the correct band automatically during Auto Channel Set. If necessary, you can check the setting at the Band screen.

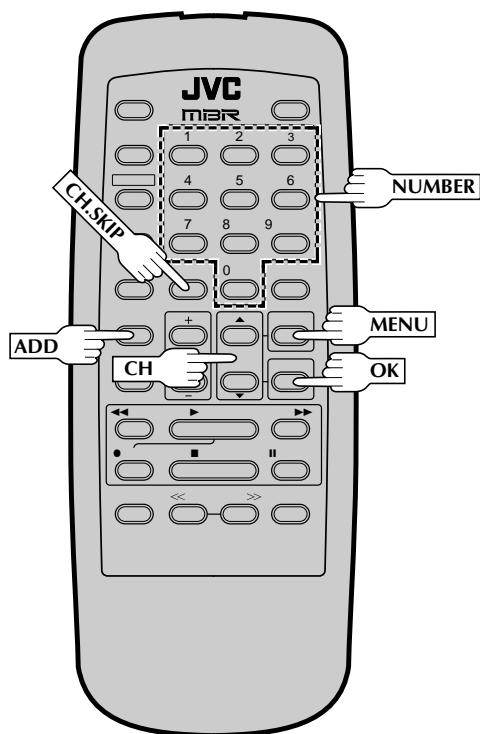
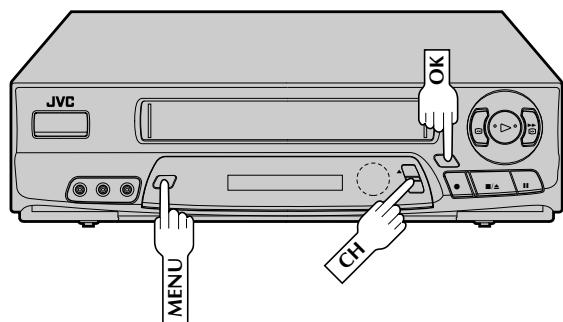
- At the Tuner Set screen, move the highlight bar (arrow) to "BAND" by pressing **CH▲▼**, then press **OK**.



- Press **MENU** as many times as necessary to return to the normal screen.



Add Or Delete A Channel



1

ACCESS TUNER SET SCREEN

Access by performing steps 2 and 3 of the Tuner procedure on page 12.

- To add a channel, go to step 2.
- To delete a channel, skip to step 4.

2

ACCESS AFC SCREEN

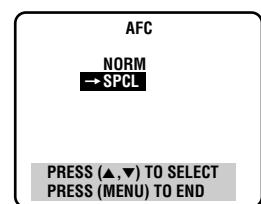
Move the highlight bar (arrow) to "AFC" by pressing **CH▲▼**, then press **OK**.

MAKE SELECTION

3

Move the highlight bar (arrow) to "SPCL" by pressing **CH▲▼**, then press **OK** to return to the Tuner Set screen.

- AFC set to SPCL (special) is necessary for tuning on certain CATV systems.



4

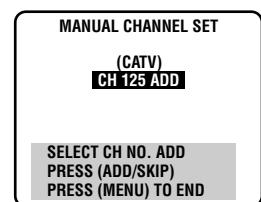
ACCESS MANUAL CHANNEL SET SCREEN

Move the highlight bar (arrow) to "MANUAL CHANNEL SET" by pressing **CH▲▼**, then press **OK**.

5

STORE OR SKIP DESIRED CHANNEL

Input the channel number using the **NUMBER** keys or by pressing **CH▲▼**, then press **ADD** to add or **CH.SKIP** to delete. Repeat for each channel you want to store or skip.



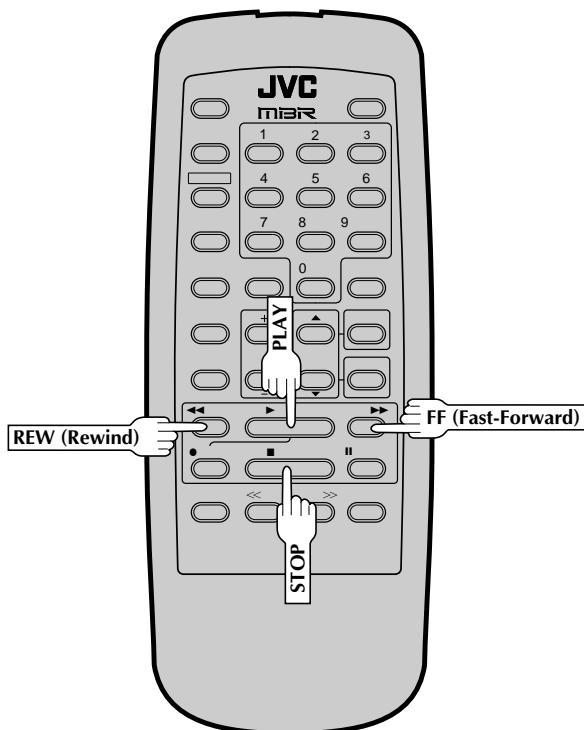
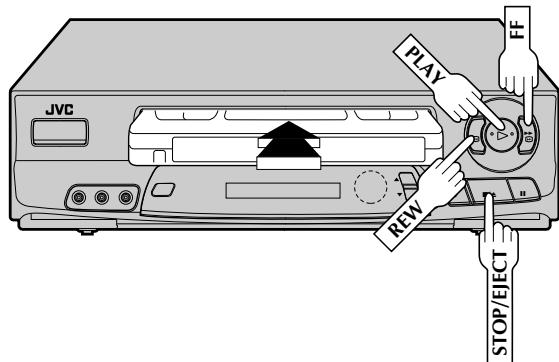
6

RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

Simple Playback

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



LOAD A CASSETTE

1 Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Don't apply too much pressure when inserting.

- The VCR's power comes on automatically.
- The counter is automatically reset to "0H 00M 00S".
- If the cassette's record safety tab has been removed, playback begins automatically.

FIND PROGRAM START POINT

2

Press **REW** or **FF** if you want to rewind or fast forward to a different section of the tape.

START PLAYBACK

3

Press **PLAY**. "AUTO PICTURE" appears on screen (☞ pg. 25).

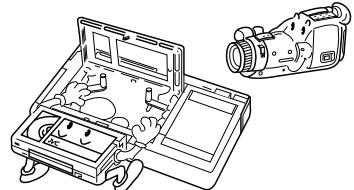
STOP PLAYBACK

4

Press **STOP** or **STOP/EJECT**. Then press **STOP/EJECT** to remove the cassette.

Usable cassettes

Full-Size VHS
T-30 (ST-30**)
T-60 (ST-60**)
T-90
T-120 (ST-120**)
T-160 (ST-160**)
ST-210**



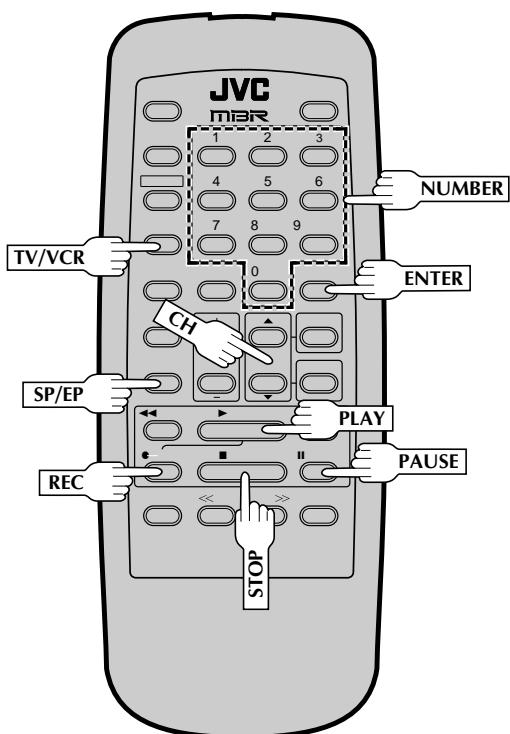
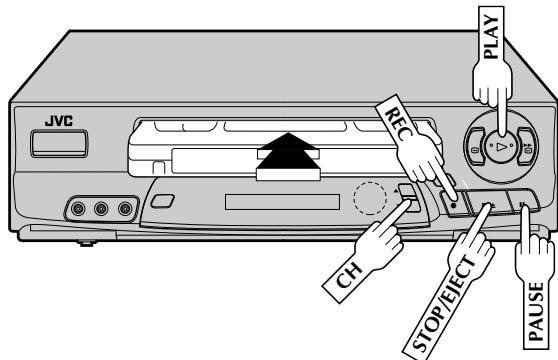
Compact VHS*
TC-20 (ST-C20**)
TC-30 (ST-C30**)
TC-40 (ST-C40**)

* Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.

** This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back Super VHS recordings.

Simple Recording

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



LOAD A CASSETTE

1 Make sure the record safety tab is intact. If not, cover the hole with adhesive tape before inserting the cassette.

SELECT RECORDING CHANNEL

2 Press **CH▲▼**. Or press the appropriate **NUMBER** keys, then press **ENTER**. (The channel changes after a few seconds whether you press **ENTER** or not.)

- If you use the RF connection, by pressing the **TV/VCR** button, select VCR mode to view the program to be recorded.

SET TAPE SPEED

3 Press **SP/EP** to set the recording speed.

START RECORDING

4 Press and hold **REC** and press **PLAY** on the remote control, or press **REC** on the VCR's front panel.

PAUSE/RESUME RECORDING

5 Press **PAUSE**. Press **PLAY** to resume recording.

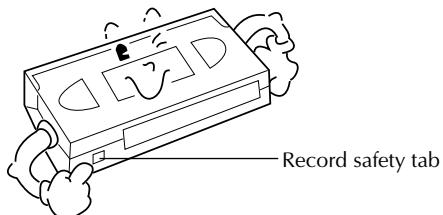
- During record pause, you can change the recording channel by using the **CH▲▼** buttons or **NUMBER** keys.

STOP RECORDING

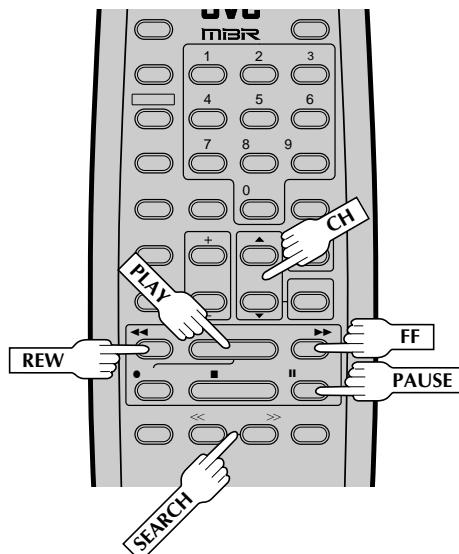
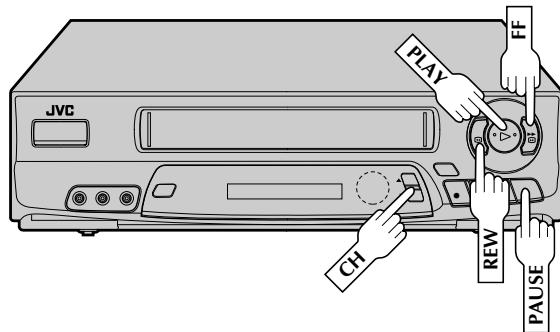
6 Press **STOP** or **STOP/EJECT**. Then press **STOP/EJECT** to remove the cassette.

Accidental erasure prevention

- To prevent accidental recording on a recorded cassette, remove its record safety tab.
To record on it later, cover the hole with adhesive tape.



Playback Features



High-Speed Search

ACTIVATE HIGH-SPEED SEARCH

1 During playback or still press **FF** for forward high-speed search, or **REW** for reverse high-speed search.

To resume normal playback, press **PLAY**.

NOTE:

For short searches, during playback or still press and hold **FF** or **REW** for over 2 seconds. When released, normal playback resumes.

Still Picture/Frame-By-Frame Playback

PAUSE DURING PLAYBACK

1 Press **PAUSE**. If there is vertical jitter, use the **CH ▲** or **▼** button to correct the picture.

ACTIVATE FRAME-BY-FRAME PLAYBACK

2 Press **PAUSE** repeatedly to advance one frame at a time.

OR
Press **SEARCH <<** or **>>** repeatedly to advance one frame at a time.

Press **SEARCH >>** for forward frame by frame playback or **SEARCH <<** for reverse frame by frame.

To resume normal playback, press **PLAY**.

Slow Motion/Reverse Slow Motion

ACTIVATE SLOW-MOTION PLAYBACK

1 During still picture, press and hold **SEARCH <<** or **>>**. Release to return to still picture.

OR
For hands-free slow-motion, press **SEARCH <<** during playback to decrease speed in the forward direction. Continue to press **<<** to select the various slow motion, reverse slow motion, reverse play and reverse search modes.

To resume normal playback, press **PLAY**.

NOTE:

If noise bars appear during slow motion, press **CH ▲** or **▼** a few times to remove the noise bars from screen.

Variable-Speed Search/Reverse Motion Playback

ACTIVATE VARIABLE-SPEED SEARCH

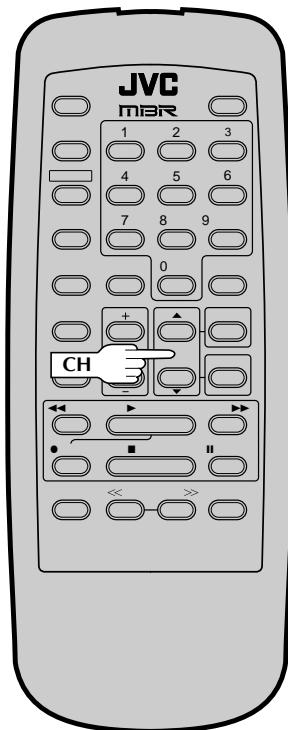
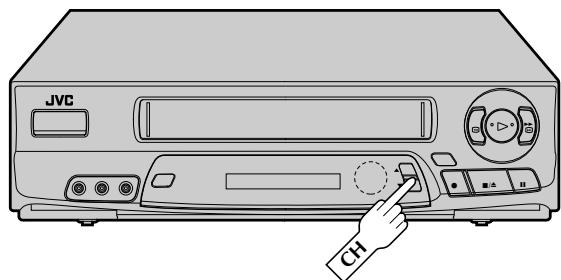
1 During playback, press **SEARCH <<** or **>>**.

- To increase the speed in the forward direction, press **>>** repeatedly to select the various forward search modes.
- To decrease the speed in the forward direction, press **<<**.
- To play in reverse slow motion, and in reverse play mode, continue to press **<<** after selecting all the forward slow motion modes.

To resume normal playback, press **PLAY**.

Manual Tracking

Once playback begins, the VCR's automatic tracking function is engaged. If noise appears in the picture, you can override this and make the adjustment manually.



ENGAGE MANUAL TRACKING MODE

1

During playback, press the **CH▲** and **▼** buttons on the VCR's front panel simultaneously to cancel the automatic tracking mode and enable manual tracking adjust.

ADJUST MANUAL TRACKING

2

Press **CH▲** or **▼** on the VCR's front panel or remote. Press briefly for fine adjust, or press and hold for coarse adjust. Watch the screen and continue adjusting until optimum picture and sound quality are achieved.

RE-ENGAGE AUTOMATIC TRACKING

3

Press the **CH▲** and **▼** buttons on the VCR's front panel simultaneously.

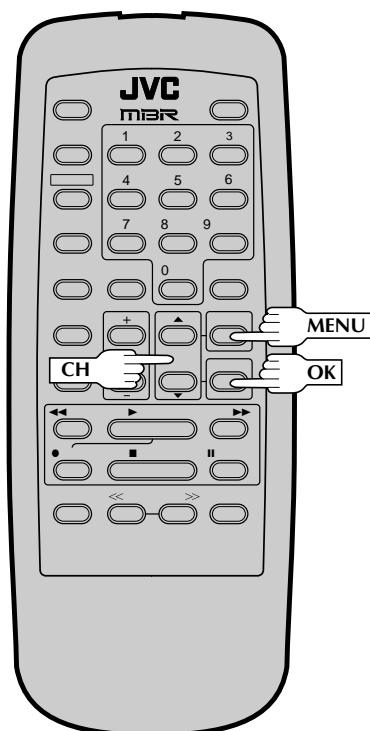
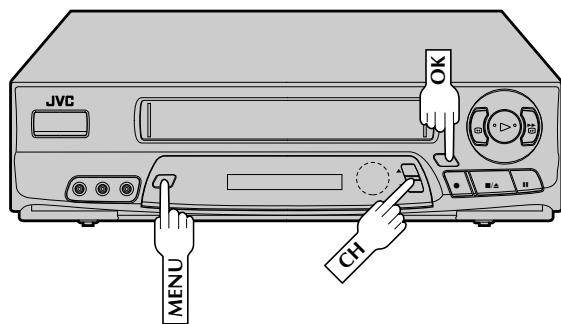
- When automatic tracking is re-engaged, Auto Picture is automatically activated.

NOTES:

- To obtain a noiseless still picture it may be necessary to adjust tracking in slow playback and then engage Pause.
- Manual tracking is possible during hands-free slow-motion. During hands-free slow-motion playback, simply press **CH▲** or **▼** on the VCR's front panel or remote to adjust tracking.

Video Stabilizer

You can correct vertical vibration when playing back unstable EP recordings that were made on another VCR. When this function is set to "ON", vertical vibration will be automatically corrected. *The default setting is "OFF".



1

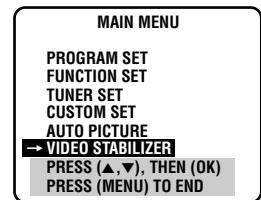
ACCESS MAIN MENU SCREEN

Press **MENU**.

2

ACCESS VIDEO STABILIZER SCREEN

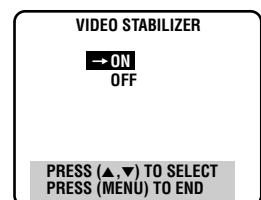
Move the highlight bar (arrow) to "VIDEO STABILIZER" by pressing **CH▲▼**, then press **OK**.



3

ACTIVATE VIDEO STABILIZER

Move the highlight bar (arrow) to "ON" by pressing **CH▲▼**.



4

RETURN TO NORMAL SCREEN

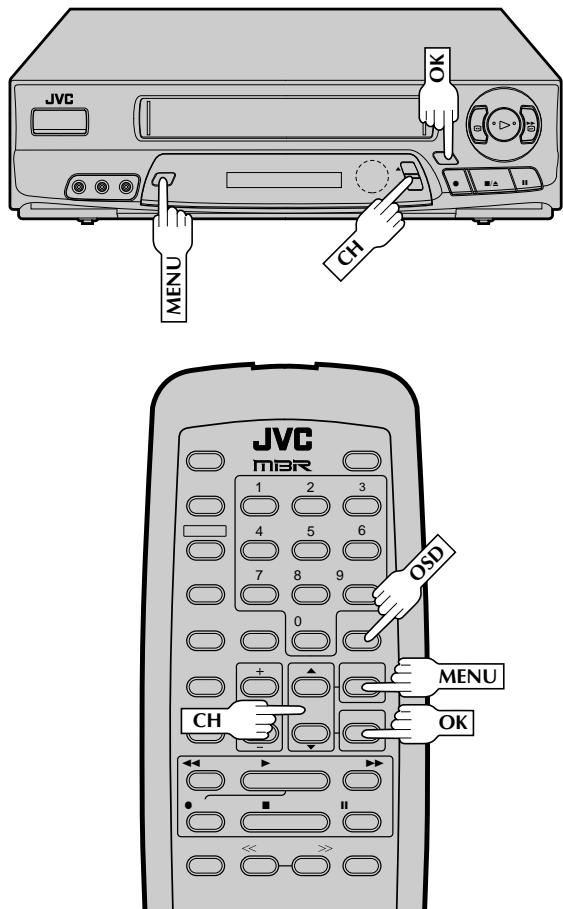
Press **MENU**.

NOTES:

- Regardless of the setting, this function has no effect with SP recordings, during recording and during special-effects playback.
- When you finish viewing the tape, be sure to set it back to "OFF".

Superimpose

This function, switchable between ON and OFF, determines whether or not operational indicators will appear on screen.



1

ACCESS MAIN MENU SCREEN

Press **MENU**.

2

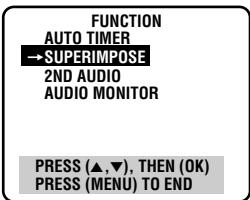
ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing **CH▲▼**, then press **OK**.

3

ACCESS SUPERIMPOSE SCREEN

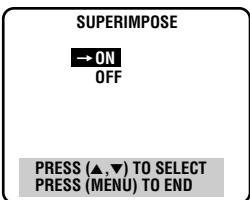
Move the highlight bar (arrow) to "SUPERIMPOSE" by pressing **CH▲▼**, then press **OK**.



4

SELECT MODE

Move the highlight bar (arrow) to "ON" or "OFF" by pressing **CH▲▼**.



5

RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

NOTE:

If you engage the Record Pause mode, RECORD/PAUSE is displayed whether "SUPERIMPOSE" is set to "ON" or "OFF".

To recall an indication

- 1 Press **OSD**.
 - All indications corresponding to the current status are displayed for 5 seconds, leaving the counter information, and RECORD/PAUSE if in the Record Pause mode, on the screen. (No indication during still and search.)
- 2 Press **OSD** again to clear the display.

The superimposed indication on the TV screen tells you what the VCR is doing.

Tuned-in channel or AUX(iliary) mode

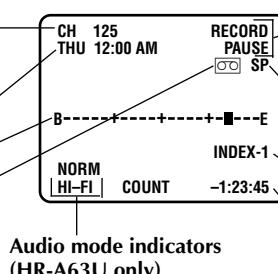
When the channel is changed, the new channel is displayed on the screen for 5 seconds.

Clock time

Tape position indicator

"Cassette Loaded" mark

When a cassette is loaded, the mark is displayed for 5 seconds. It blinks when the VCR's EJECT button is pushed.



Operation mode

When the operation mode is changed, the new mode is displayed — RECORD (5 sec.), PLAY (5 sec.), FF/REW (5 sec. when engaged from Stop mode), RECORD PAUSE (for as long as Pause is engaged), and ITR *:** (5 sec.).

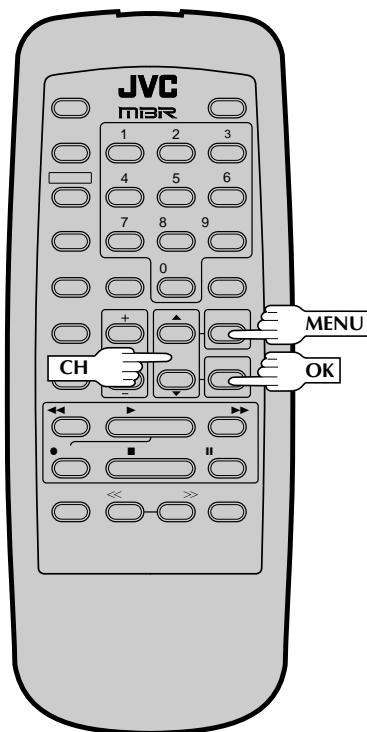
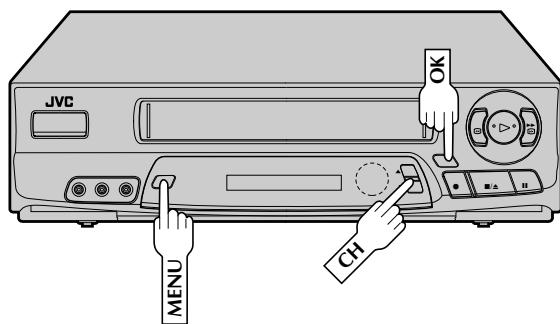
Tape speed indicator

INDEX indication

Counter reading

Select The Soundtrack (HR-A63U Only)

Your VCR can record two soundtracks simultaneously (Normal and Hi-Fi) and play back the selected one, or both together.



1

ACCESS MAIN MENU SCREEN

Press **MENU** during playback or when VCR is in stop mode.

2

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing **CH▲▼**, then press **OK**.

3

ACCESS AUDIO MONITOR SCREEN

Move the highlight bar (arrow) to "AUDIO MONITOR" by pressing **CH▲▼**, then press **OK**.

FUNCTION
AUTO TIMER
SUPERIMPOSE
2ND AUDIO
→AUDIO MONITOR

PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END

4

SELECT MODE

You have three choices:

- a- Hi-Fi
- b- Normal
- c- Mix

AUDIO MONITOR
→ HI-FI
NORM
MIX

PRESS (▲,▼) TO SELECT
PRESS (MENU) TO END

5

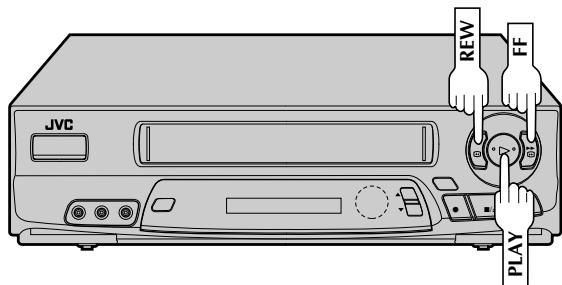
RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

NOTES:

- If the tape being played back has no Hi-Fi soundtrack, the Normal soundtrack will be heard no matter what choice you make at the Audio Monitor screen.
- If RF connection is used for TV, even if Hi-Fi audio monitor is selected the sound will be mono and will be reproduced in both loudspeakers.

Index Search



Index codes are placed on the tape at the start of each recording. You can find and automatically play back from the start of any recording using the Index Search function.

1 START SEARCH

While the tape is stopped, press **SEARCH << or >>**.

2 ACCESS DISTANT CODE

To access a recording 2-9 index codes away, press **SEARCH << or >>** repeatedly until the correct number is displayed on screen (only if SUPERIMPOSE is set to ON (☞ pg. 20). Playback begins automatically when the desired recording is located.

- If necessary press **REW** or **FF** when play starts to search visually to find the very beginning of the desired program.

NOTE:

An index code is not placed on the tape when recording is paused and then resumed.

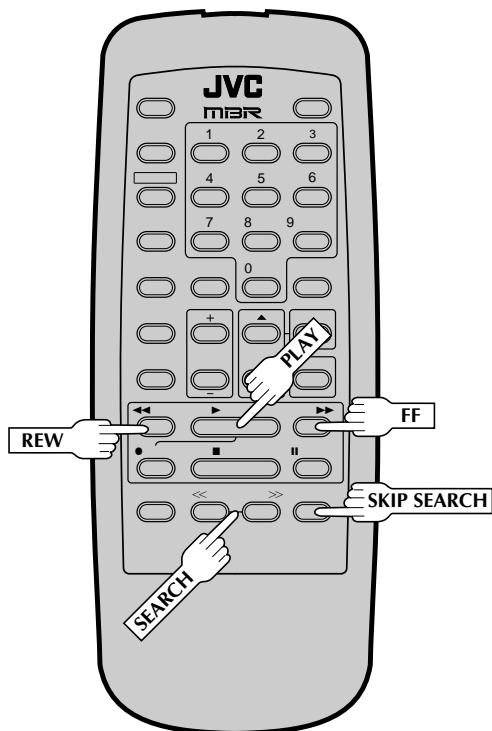
Skip Search

1 SKIP OVER UNWANTED SECTIONS

Press **SKIP SEARCH** 1 to 4 times during playback. Each press initiates a 30-second period of fast-motion playback. Normal playback resumes automatically.

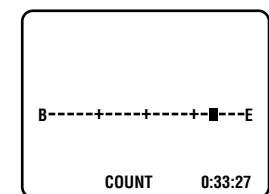
NOTE:

*To return to normal playback during a Skip Search, press **PLAY**.*



Tape Position Indicator

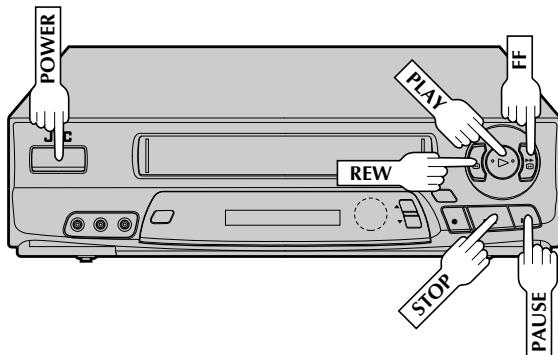
The Tape position indicator appears on screen when, from the stop mode, you press **FF**, **REW**, or perform an Index Search. The position of "■" in relation to "B" (Beginning) or "E" (End) shows you where you are on the tape.



NOTE:

"SUPERIMPOSE" must be set to "ON", or the indicator will not appear (☞ pg. 20).

Repeat Playback



1

START REPEAT

Press and hold **PLAY** (until "PLAY" blinks on the front display panel) during playback, then release.



- The entire tape is played back 20 times.

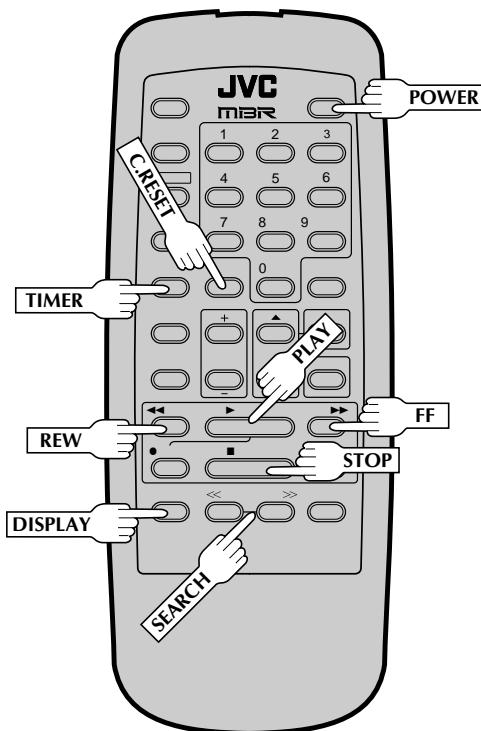
2

STOP REPEAT

To stop, press **STOP** at any time.

NOTE:

Pressing **PLAY**, **REW**, **FF**, **PAUSE** or **SEARCH <<** or **>>** also stops Repeat Playback.



Counter Reset

RESET COUNTER TO ZERO

Press **C.RESET**.

NOTE:

By pressing the **DISPLAY** button, you can change the display to show the counter reading, channel number or clock time. (Channel number is not displayed during playback.)

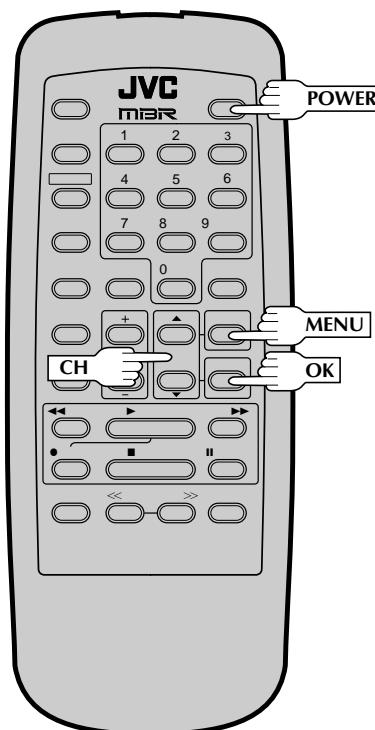
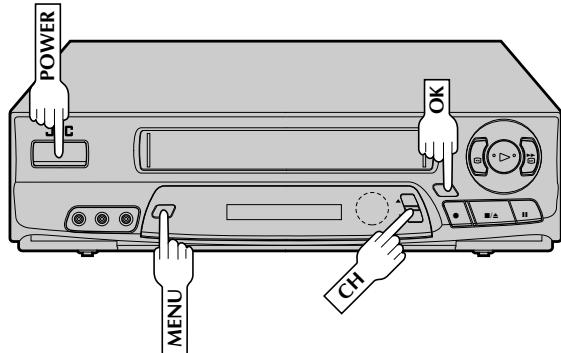
Next-Function Memory

The Next Function Memory "tells" the VCR what to do after rewinding. * Before continuing, ensure that the VCR is in stop mode.

- a- For Automatic Start Of Playback After Tape Rewind . . .
 - ... press **REW**, then press **PLAY** within 2 seconds.
- b- For Automatic Power Off After Tape Rewind . . .
 - ... press **REW**, then press **POWER** within 2 seconds.
- c- For Automatic Timer Standby After Tape Rewind . . .
 - ... press **REW**, then press **TIMER** within 2 seconds.

Auto Picture

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



Auto Picture checks the condition of the tape and compensates accordingly, giving you the best-possible playback picture every time. The default setting is "ON".

Preparation

TURN ON THE VCR

Press **POWER**.

1

ACCESS MAIN MENU SCREEN

Press **MENU**.

2

ACCESS AUTO PICTURE SCREEN

Press **CH▲▼** to move the highlight bar (arrow) to "AUTO PICTURE", then press **OK**.

3



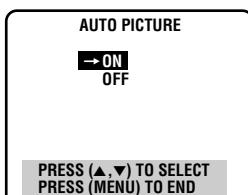
SELECT MODE

4

Move the highlight bar (arrow) to "ON" by pressing **CH▲▼**.

NOTE:

When using rental tapes, or tapes recorded on other VCRs, select "ON" or "OFF" as desired to give the best picture.



RETURN TO NORMAL SCREEN

5

Press **MENU**.

Playback

The VCR assesses the quality of the tape once you start playback.

Before beginning, perform steps 1 and 2 on page 15 ("Simple Playback") before continuing.

START PLAYBACK

Press **PLAY**.

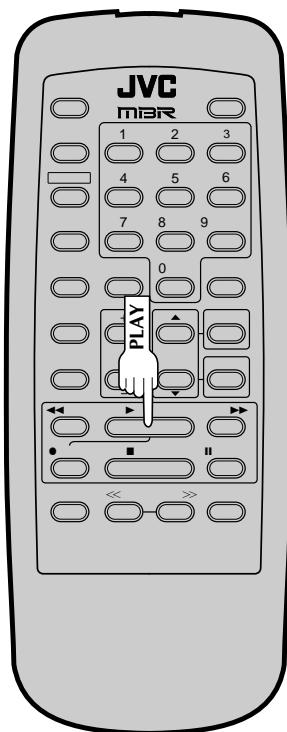
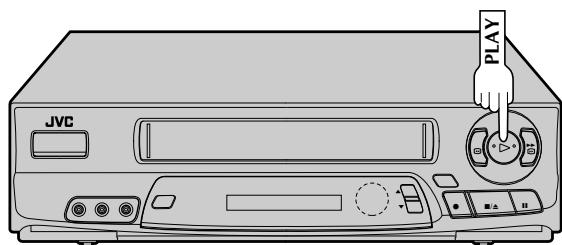
1

- The VCR adjusts the playback picture quality based on the quality of the tape in use.

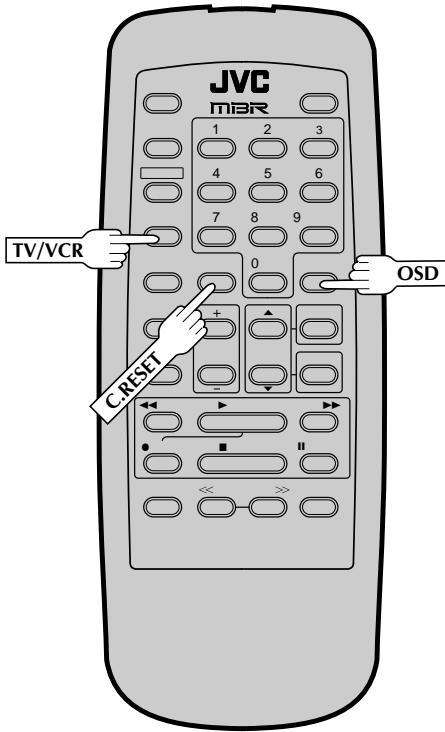


NOTE:

- *The Auto Picture screen only appears at the beginning of automatic tracking. Even though the screen doesn't appear after that, the Auto Picture function is operative.*
- **SUPERIMPOSE** must be set to "ON" or the Auto Picture screen will not appear (pg. 20).



Recording Features



Record One Program While Watching Another

1

ENGAGE TV MODE

During recording...

- Press **TV/VCR**. The VCR's VCR indicator goes out. (If you are using the RF connection (☞ pg. 6) to view the output from your VCR, the TV broadcast being recorded disappears.)
- If you are using the AV connection (☞ pg. 6), to view the output from your VCR, change the TV's input mode from AV to TV.

2

SELECT CHANNEL FOR VIEWING

Use the TV's channel selector to set the channel you want to watch.

Display Elapsed Recording Time

1

RESET COUNTER TO ZERO

Before recording starts, press **C.RESET**. The counter resets to zero and displays the exact elapsed time as the tape runs.

2

DISPLAY ELAPSED TIME ON SCREEN

During recording, press **OSD** at any time to see the elapsed time. All indications corresponding to the current status of the VCR are displayed for 5 seconds. The counter display remains on the screen indicating the elapsed time. Press **OSD** again to remove the display.

- Make sure "SUPERIMPOSE" is set to "ON" (☞ pg. 20).
- The indications are not be recorded.

Stereo And SAP (Second Audio Program) (HR-A63U Only)

Your VCR's built-in MTS decoder enables reception of Multi-channel TV Sound broadcasts.

- The ST indicator on the front display panel lights during stereo broadcast reception, and SAP lights during SAP program reception.
- Both indicators light when a stereo program is accompanied by SAP audio.

To Record Stereo Programs . . .

. . . simply follow the basic recording procedure.

To Listen To Stereo Soundtrack During Recording . . .

. . . select "HI-FI" at the Audio Monitor screen (pg. 21).

To Record SAP Programs . . . (HR-A63U Only)

ACCESS MAIN MENU SCREEN

1

ACCESS FUNCTION SET SCREEN

2

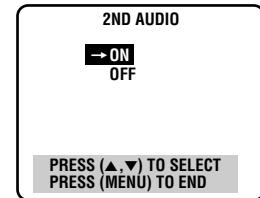
ACCESS 2ND AUDIO SCREEN

3

SELECT MODE

4

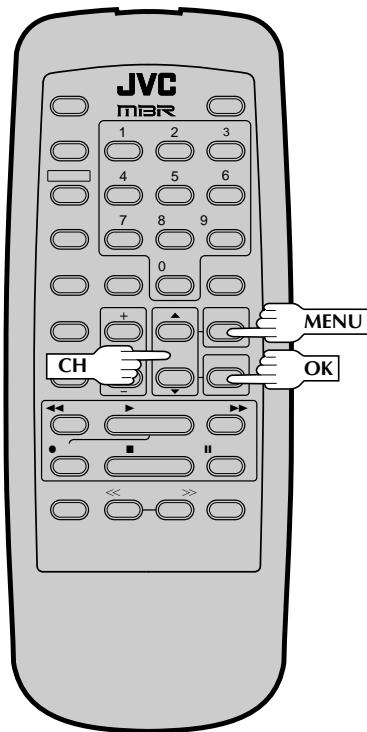
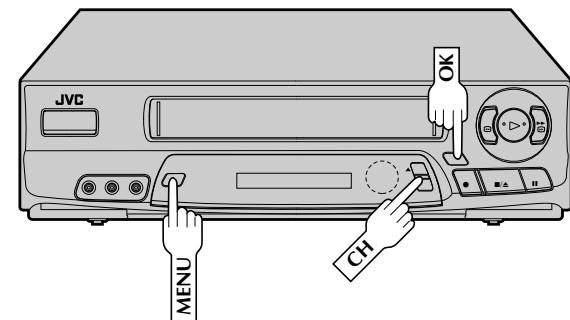
Move the highlight bar (arrow) to "2ND AUDIO" by pressing CH \blacktriangle \triangledown , then press OK.



RETURN TO NORMAL SCREEN

5

Press MENU as many times as necessary.

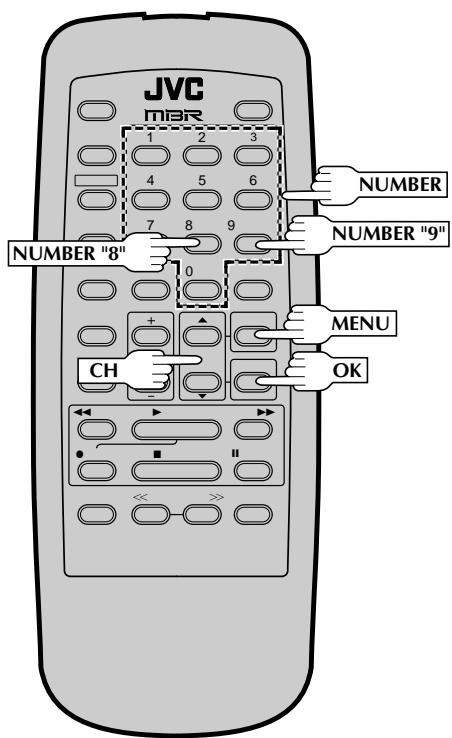
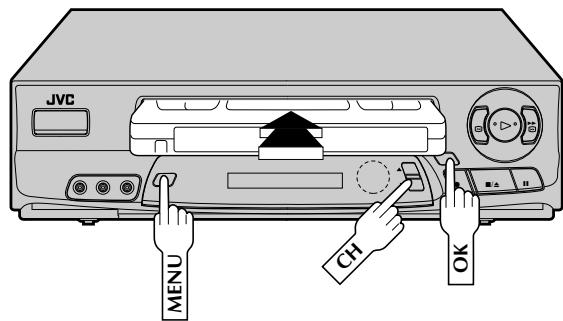


NOTES:

- If a SAP program is received, the SAP audio is recorded on both the Normal and Hi-Fi tracks. The main audio program is not recorded.
- If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and Normal audio tracks.

On-Screen Timer Programming

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



You can directly program the VCR's timer to record up to 8 shows, as far as a year in advance. Remember, the clock must be set before you can program the timer (☞ pg. 7 or 9).

LOAD A CASSETTE

1

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape, then load.

- The VCR comes on, and the counter is reset, automatically.

ACCESS ON-SCREEN MENU

2

Press **MENU**.

ACCESS PROGRAM SET SCREEN

3

Make sure the highlight bar (arrow) is on "PROGRAM SET", then press **OK**.

SELECT PROGRAM NUMBER

4

Press the appropriate **NUMBER** keys or **CH▲▼** to select a vacant program number, then press **OK**. The first time you set the timer programming function, all the program numbers will be blank; in this case just press **OK** when the Program Set screen appears.

PROGRAM 1	
DATE	--/-/-
START	--:-- AM
STOP	--:-- AM
CHANNEL	-- SP
PRESS NUMBER KEY (0-9) OR (▲,▼), THEN (OK) PRESS (MENU) TO END	

SET PROGRAM INFORMATION

5

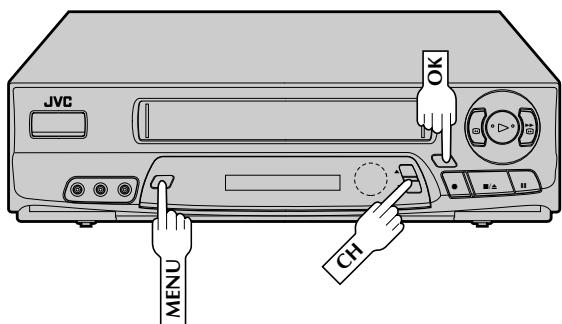
Press the appropriate **NUMBER** keys to set the date, start/stop time and channel number. Press **CH▲▼** to set AM/PM and tape speed (SP or EP). Press **OK** after AM/PM, channel number and tape speed settings.

- Any information comprised of 1 digit (except the channel number) should have a "0" entered before it.
- It is possible to set all information using the **CH▼** button. (In this case, press **OK** after each setting.) Do not use the **CH▼** button to set the date.
- At the Program Set screen, the setting that can be set blinks. When setting of a highlighted item is completed, the highlight bar moves down by 1 line to the next item.

NOTE:

If you are using a cable box, enter the cable box channel, not the channel to be recorded. The channel to be recorded must be selected on the cable box. (The cable box channel is the VCR's channel that displays the channels received by the cable box.)

** You can record selected programs at the same time every weekday, or once a week. Before entering the month, press **NUMBER** key "8" (DAILY) or "9" (WEEKLY). Either "DAILY" or "WEEKLY" appears. Press again and "DAILY" or "WEEKLY" disappears. For weekly recording, the desired date for the day of the week must be entered.



6

MAKE CORRECTIONS

To change any of the settings, press **OK** or **SEARCH** <<>> until the item you want to change begins blinking. Then set as in step 5.

7

RETURN TO NORMAL SCREEN

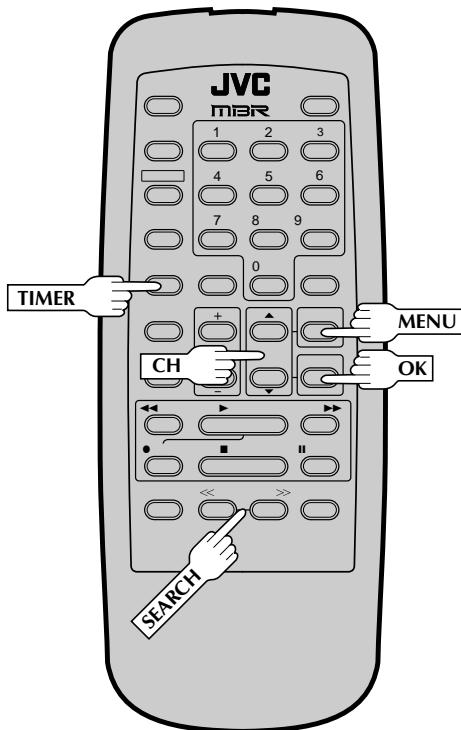
Press **MENU** as many times as necessary.

- Press just once to access the Auto Timer screen (☞ pg. 31).

8

ENGAGE TIMER MODE

Press **TIMER**. The VCR turns off automatically.



NOTES:

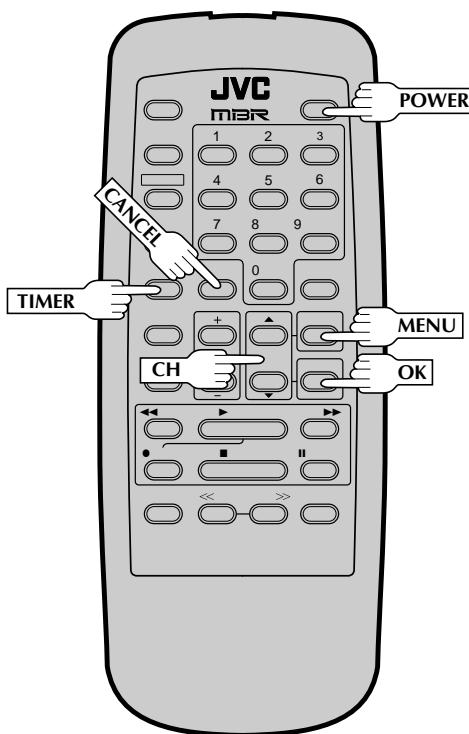
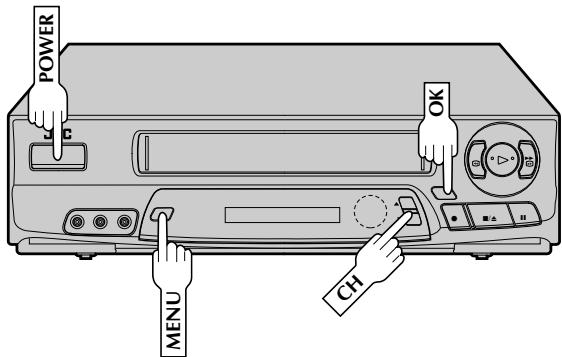
- To disengage the timer before recording starts, press **TIMER** again. Pressing once more re-engages it.
- In case of a power failure after programming, the VCR's memory backup keeps your selections for approximately 10 minutes.
- If you select "PROGRAM SET" without having set the date and time, an error message appears. Follow its instructions.
- If you enter a start time that has already passed, "ERROR" appears on the screen and blinks.
- Programs that start after midnight must have the next day's date.
- After timer recording is completed, the VCR's power goes off automatically.
- You can program the timer while a regular recording is in progress; the on-screen menu will not be recorded.
- If the end of tape is reached during timer recording, the cassette is automatically ejected.
- When timer-recording cable or satellite channels through an external tuner, be sure to keep the cable box or satellite receiver's power ON.

EXAMPLE

If you program the VCR to timer record a show on December 24 on channel 40 from 12:00 noon to 1:00 PM in SP mode, the screen will look like this:

PROGRAM 1	
DATE	12/24 WED
START	12:00 PM
STOP	1:00 PM
CHANNEL	40 SP
PRESS NUMBER KEY (0-9) OR (▲, ▼), THEN (OK) PRESS (MENU) TO END	

Check And Cancel Programs



1

DISENGAGE TIMER

Press **TIMER**, then press **POWER**.

2

ACCESS MAIN MENU SCREEN

Press **MENU**.

3

ACCESS PROGRAM SET SCREEN

Press **CH▲▼** to move the highlight bar (arrow) to "PROGRAM SET", then press **OK**.

4

CHECK PROGRAM INFORMATION

Press **CH▲▼** to check the programs in succession.

To Cancel A Program . . .

5

CANCEL A PROGRAM

Press **CANCEL**.

- Repeat steps 4 and 5 as many times as necessary.

6

RETURN TO NORMAL SCREEN

Press **MENU**. If there are still programs remaining, go to step 7.

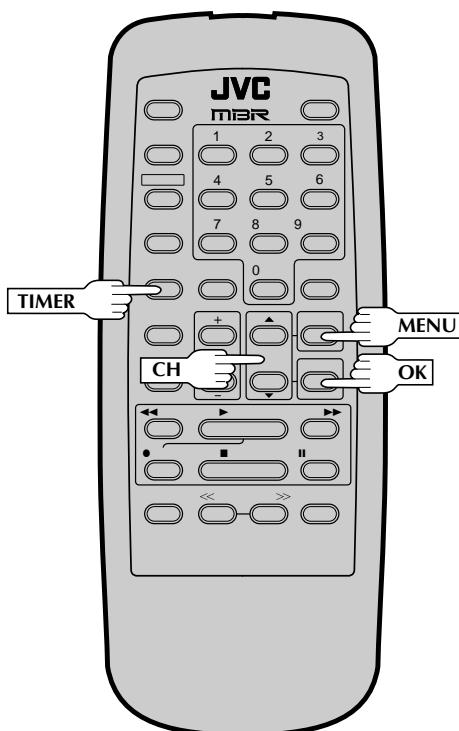
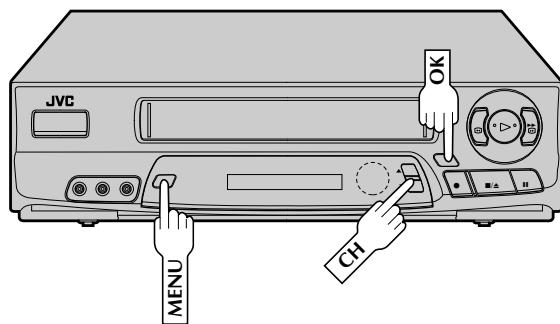
7

RE-ENGAGE TIMER

Press **TIMER** again.

Auto Timer

When the Auto Timer is set to ON the timer is automatically engaged when the VCR's power is turned off and automatically disengaged when the VCR is powered back on.



1

ACCESS MAIN MENU SCREEN

Press **MENU**.

2

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing **CH▲▼**, then press **OK**.

3

ACCESS AUTO TIMER SCREEN

Move the highlight bar (arrow) to "AUTO TIMER" by pressing **CH▲▼**, then press **OK**. Now skip to step 2 of the procedure below.

Or, during on-screen timer programming ...

1

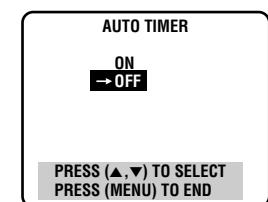
ACCESS AUTO TIMER SCREEN

In step 7 in the On-Screen Timer Programming procedure (pg. 29), press **MENU**.

2

SELECT MODE

Move the highlight bar (arrow) to your choice ("ON" or "OFF") by pressing **CH▲▼**.



3

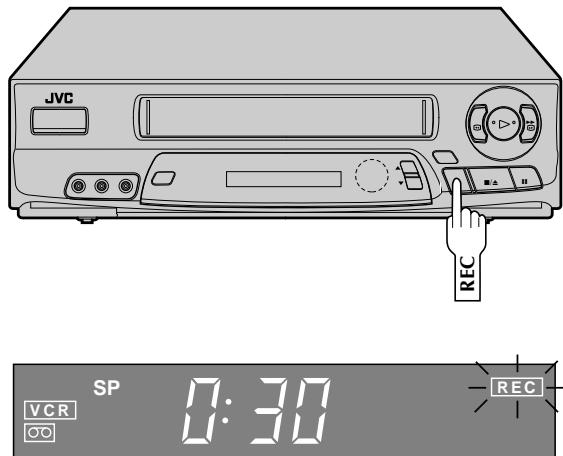
RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

NOTE:

For safety, when AUTO TIMER is set to "OFF", all other VCR functions are disabled while the Timer mode is engaged. To disengage the timer, press **TIMER**.

Instant Timer Recording (ITR)



This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the VCR off after recording is finished.

1 START RECORDING

Press **REC** on the front panel.

2 ENGAGE ITR MODE

Press **REC** again. REC blinks and 0:30 appears on the front display panel.

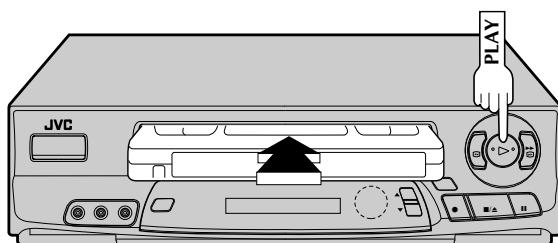
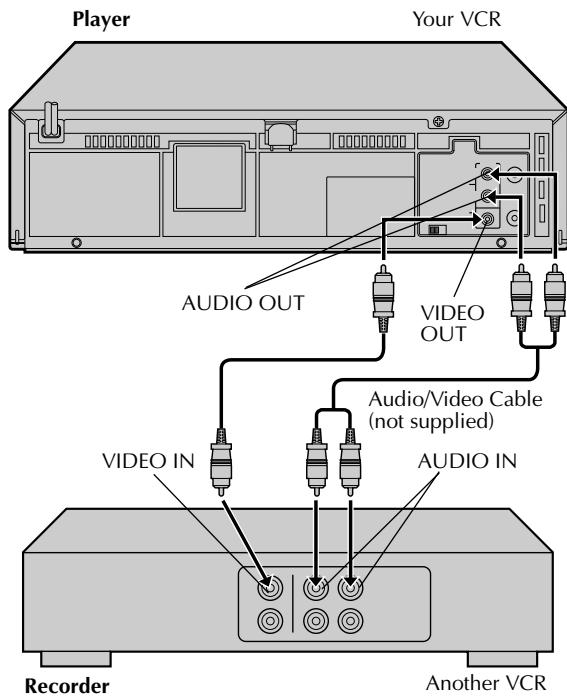
3 SET RECORDING DURATION

If you want to record for more than 30 minutes, press **REC** to extend the time. Each press extends recording time by 30 minutes.

NOTES:

- You can only perform ITR using the **REC** button on the VCR's front panel.
- After you set the ITR time, the previous display reappears.
- To check the remaining time, press **REC** once during recording and the remaining time will be displayed for about 5 seconds. Be careful not to press **REC** again within these 5 seconds, or you will round the recording time up to the next 30 minute increment.

Edit To Another VCR



You can use your VCR as the player and another VCR as the recorder.

MAKE CONNECTIONS

1

Connect an AV cable between your VCR's VIDEO OUT and AUDIO OUT connectors and another VCR's VIDEO IN and AUDIO IN connectors.

For HR-A63U owners...

- When connecting to a monaural VCR, connect your VCR's AUDIO OUT L connector to the AUDIO IN connector on the monaural VCR.

For HR-A43U owners...

- When connecting to a Hi-Fi VCR, connect your VCR's AUDIO OUT connector to the AUDIO IN L connector on the Hi-Fi VCR.

LOAD CASSETTES

2

Insert the playback cassette into your VCR and the cassette to be recorded on into the other VCR.

SET RECORDER'S INPUT MODE

3

Set the other VCR's auxiliary (AV) input mode.

START PLAYER

4

Press **PLAY** on your VCR.

NOTE:

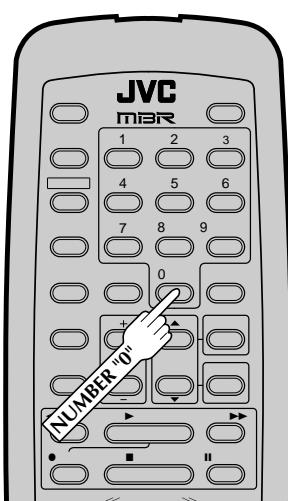
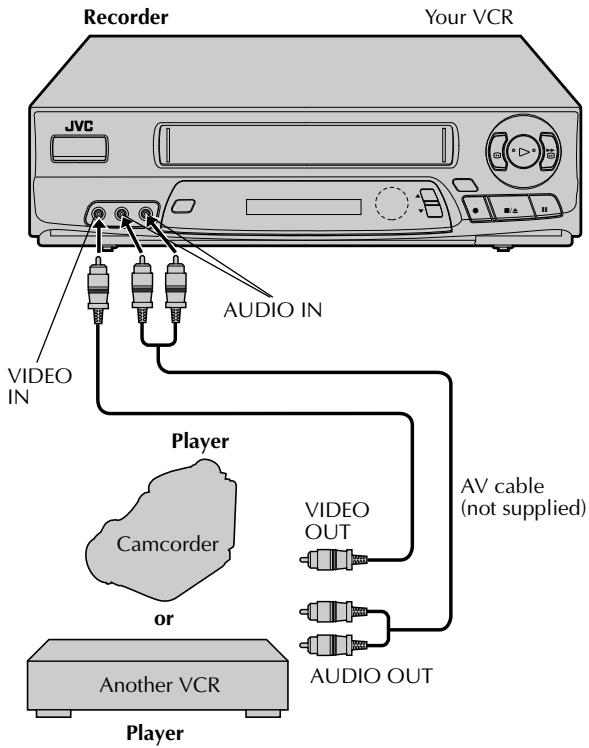
*If you don't want to record the superimposed indication on the edited tape, be sure to set "SUPERIMPOSE" to OFF before pressing **PLAY** (pg. 20).*

START RECORDER

5

Set the other VCR to its record mode.

Edit From A Camcorder Or Another VCR



You can use a camcorder or another VCR as the player and your VCR as the recorder.

MAKE CONNECTIONS

1

Connect an AV cable between the camcorder's or the playback VCR's VIDEO OUT and AUDIO OUT connectors and your VCR's VIDEO IN and AUDIO IN connectors.

For HR-A63U owners...

- When using a monaural camcorder or a monaural VCR, connect its AUDIO OUT connector to the AUDIO IN L connector on your VCR.

For HR-A43U owners...

- When using a Hi-Fi camcorder or a Hi-Fi VCR, connect its AUDIO OUT L connector to the AUDIO IN connector on your VCR.

LOAD A CASSETTE

2

Insert the cassette to be recorded on into your VCR and the playback cassette into the camcorder or the playback VCR.

SET RECORDER'S INPUT MODE

3

Press **NUMBER** key "0" to set your VCR to AUX.

START PLAYER

4

Set the camcorder or the playback VCR to its play mode.

NOTE:

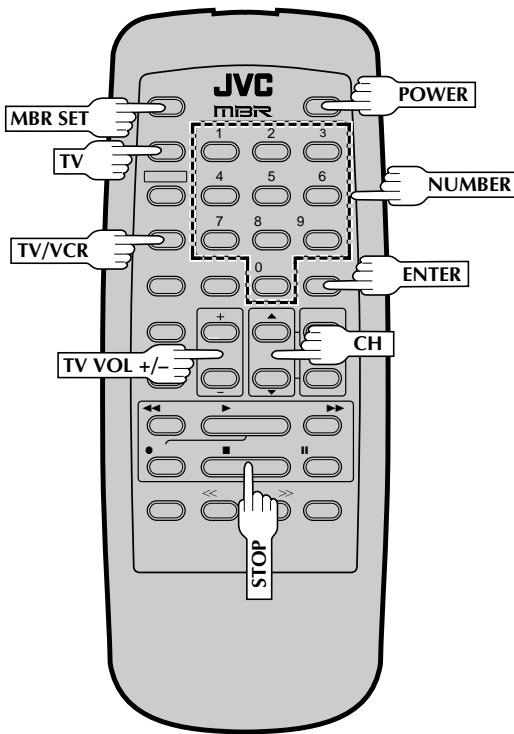
If the camcorder or another VCR is equipped with a superimpose/OSD disable feature then set its superimpose or display feature to OFF before pressing play.

START RECORDER

5

Set your VCR to its record mode.

TV Multi-Brand Remote Control



The VCR's remote control can control several functions on JVC remote control TVs and on the brands of remote control TVs listed below. *The default setting is JVC code 01.

TURN ON THE TV

Turn the power on using the TV's remote control.

SET TV BRAND CODE

Refer to the chart below. While holding down **TV** on the VCR's remote control, press **MBR SET** and enter your TV's brand code using the **NUMBER** keys, then press **STOP**. Follow the example shown at bottom left.

- Once you have set the remote control to operate the TV, you don't have to repeat this step until you replace your remote control's batteries.
- PANASONIC has two codes. If the TV does not function with one code, try entering the other.

OPERATE TV

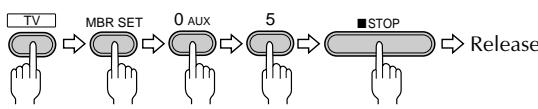
First, while holding down **TV**, press **POWER** on the remote to see if the TV's power goes off as it should. If it does, try other operations.

- The **POWER**, **TV/VCR**, **CH▲▼**, **TV VOL +/-** and **NUMBER** keys on the remote can all be used to operate the TV. *For some brands of TV, you must press **ENTER** after having pressed the **NUMBER** keys.
- To operate your TV, while holding down **TV**, press the corresponding button: **POWER**, **TV/VCR**, **CH▲▼**, **NUMBER** keys (or **ENTER**). **TV VOL +/-** can be used without holding down **TV**.

NOTE:

Depending on the type of TV, there may be cases where some or all functions cannot be operated using the remote control.

(Ex.) To set remote control to RCA 05:



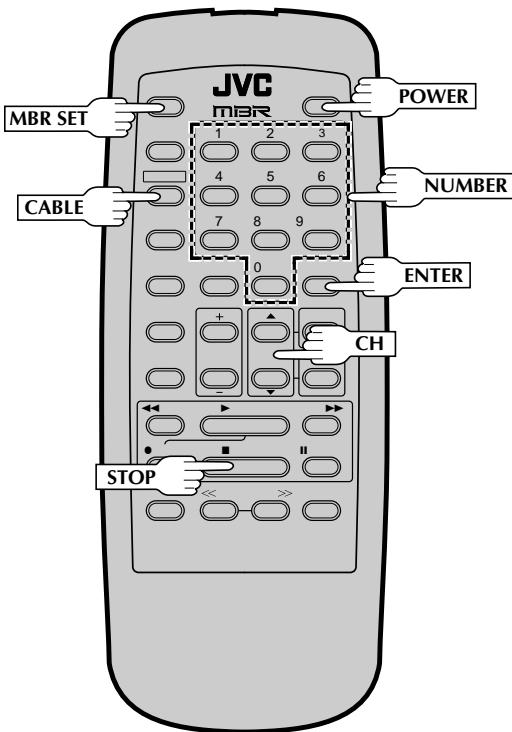
Hold down

Press in succession

TV BRAND NAME	BRAND CODE
JVC	01
MAGNAVOX	02
MITSUBISHI	03
PANASONIC	04, 11
RCA	05
SHARP	06
SONY	07
TOSHIBA	08
ZENITH	09
HITACHI	10
SAMSUNG	12
SANYO	13
SEARS	13

Cable Box Multi-Brand Remote Control

The VCR's remote control can control functions on the brands of cable boxes listed below. Some cable box brands have more than one code. If your cable box does not function with a specified code, try other codes.



TURN ON THE CABLE BOX

Turn the power on using the cable box's remote control.

1

ENTER CABLE BOX BRAND

While holding down **CABLE** on the VCR's remote control, press **MBR SET** and use the **NUMBER** keys to enter the cable box brand number from the chart below and then press **STOP**.

Follow the example shown below.

2

- Once you have set the remote control to operate the cable box, you don't have to repeat this step until you replace the remote control's batteries.

3

OPERATE CABLE BOX

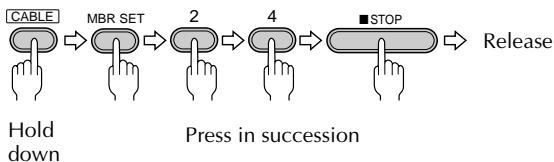
First, while holding down **CABLE**, press **POWER** to see if the cable box's power goes off as it should. If it does, try other functions.

- To operate your cable box, while holding down **CABLE**, press the corresponding button: **POWER**, **CH▲▼**, **NUMBER** keys (or **ENTER**).
- For some brands of cable box, you must press **ENTER** after having pressed the **NUMBER** keys.

NOTE:

Depending on the type of cable box, there may be cases where some or all functions cannot be operated using the remote control.

(Ex.) To set remote control to cable box brand RCA 24:



CABLE BOX BRAND NAME	BRAND CODE
CURTIS	09, 10
GEMINI	08
GENERAL INSTRUMENTS	01, 02, 03, 04, 05, 06, 07, 08
HAMLIN	15, 16, 17, 18
JERROLD	01, 02, 03, 04, 05, 06, 07, 08
OAK	19, 20, 21
PANASONIC	24, 25, 26
PIONEER	13, 14
RCA	24, 25, 26
REGAL	15, 16, 17, 18
SAMSUNG	08, 13
SCIENTIFIC ATLANTA	09, 10
SIGMA	19, 20, 21
SL MARX	08, 13
SPRUCE	24, 25, 26
TELEVIEW	08, 13
TOCOM	22, 23
VIDEOWAY	11, 12
ZENITH	11, 12

Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your VCR off for repair.

POWER

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The power won't come on.	• The power cord is disconnected.	Connect the power cord.
2. The clock works, but the VCR's power won't come on.	• The TIMER mode is engaged with Auto Timer set to "OFF" (☞ pg. 31).	Press TIMER to disengage.
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.

TAPE TRANSPORT

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The cassette gets stuck partway during loading, and is ejected.	• The cassette was inserted incorrectly.	Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Then insert the cassette.

PLAYBACK

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The tape is running but the picture won't appear.	• If you're using the RF OUT connection (☞ pg. 6), the channel selector on the TV is set incorrectly. • If you're using the AV connection (☞ pg. 6), the TV receiver is set to the wrong mode.	Set the channel selector to channel 3 or 4. Set the TV receiver to its AV mode.
2. Noise appears during visual search.	• This is normal.	
3. (HR-A63U only) Breaks are noticeable in Hi-Fi soundtrack.	• Automatic tracking is engaged.	Engage and adjust tracking manually (☞ pg. 18).
4. The playback picture is blurred or interrupted, even though TV broadcasts are clear.	• The video heads may be dirty.	The heads must be cleaned. Consult your JVC dealer.
5. (HR-A63U Only) The Hi-Fi soundtrack cannot be heard.	• The AUDIO MONITOR option at the Function Set screen was set incorrectly.	Set AUDIO MONITOR to "HI-FI" (☞ pg. 21).

RECORDING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording won't start.	• There's no cassette loaded. • The loaded cassette has had its record safety tab removed.	Insert a cassette. Remove the cassette and cover the hole with adhesive tape, or load a cassette on which the record safety tab is intact.
2. TV broadcasts won't record properly.	• The VCR has been set to its AUX mode by mistake.	Set the VCR to the appropriate channel.
3. Tape-to-tape editing won't work.	• The VCRs or the camcorder and the VCR have been incorrectly connected. • The power to one or more of the units has not been turned on. • The recorder has not been set to its AUX mode.	Refer to the directions and the illustration under "Edit To Another VCR" (☞ pg. 33) or "Edit From A Camcorder Or Another VCR" (☞ pg. 34) and properly connect the units. Make sure the power to all units is on. Set the recorder to its AUX mode.

CONTINUED ON NEXT PAGE.

TIMER RECORDING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Timer recording won't work.	<ul style="list-style-type: none"> • The clock and/or the timer have been set incorrectly. • The timer is not engaged. • The VCR has not been set up properly. 	Set the clock and/or timer correctly. Press TIMER and check to make sure that TIMER appears on the front display panel. Re-perform the set-up procedures.
2. On-screen timer programming won't work.	<ul style="list-style-type: none"> • Timer recording is in progress. 	Timer programming can't be performed when timer recording is in progress. Wait until it finishes.
3. TIMER and  on the front display panel won't stop blinking.	<ul style="list-style-type: none"> • The timer is engaged but there's no cassette loaded. • The loaded cassette has had its record safety tab removed. 	Load a cassette with the record safety tab intact, or with the hole covered with adhesive tape. Press TIMER so that TIMER on the display panel disappears, then eject the cassette and cover its hole with adhesive tape, or replace it with a cassette on which the safety tab is intact.
4. TIMER blinks for 10 seconds and the timer mode is disengaged.	<ul style="list-style-type: none"> • TIMER has been pressed when there are no programs in memory, or the timer record program information has not been programmed correctly. 	Check the programmed data and re-program as necessary, then press TIMER again.
5. The cassette is automatically ejected, the power shuts off and TIMER and  won't stop blinking.	<ul style="list-style-type: none"> • The end of tape was reached during timer recording. 	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.

OTHER PROBLEMS

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. When scanning channels, some of them are skipped over.	<ul style="list-style-type: none"> • Those channels have been preset to be skipped. 	If you need the skipped channels, restore them (☞ pg. 14).
2. The channel can't be changed.	<ul style="list-style-type: none"> • Recording is in progress. 	Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.
3. The remote control won't operate my TV or cable box.	<ul style="list-style-type: none"> • The remote control brand setting is incorrect. 	Re-set the remote control to the correct brand (☞ pg. 35 or 36).
4. Even though Auto or Semi-Auto clock setting has been selected, the clock is incorrect.	<ul style="list-style-type: none"> • The clock setting data received from the Host Channel is incorrect. 	Select a different Host Channel during the Semi-Auto setting procedure (☞ pg. 10), or perform the Manual setting procedure (☞ pg. 11).

ATTENTION:

This VCR contains microcomputers. External electronic noise or interference can cause microcomputer to malfunction. If the VCR does not operate correctly switch its power off and unplug the power cord from the AC supply. Wait for a while and then plug the power back in. Eject and check the condition of the cassette. If everything appears normal resume operating the VCR as usual.

PLAYBACK

Q. What happens if the end of the tape is reached during playback or search?

A. The tape is automatically rewound to the beginning.

Q. Can the VCR indefinitely remain in the still mode?

A. No. It stops automatically after 5 minutes to protect the heads.

Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?

A. This is normal.

Q. During search, still and frame-by-frame playback, the picture is intermittent. What's the cause?

A. Picture loss occurs when these types of playback are attempted with a tape recorded in LP mode. Pressing PLAY to return to normal playback will restore the picture.

Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?

A. No, it is normal.

Q. Noise bars appear during multi-speed search. What's the problem?

A. This is normal.

Q. When playing back programs that have been timer-recorded with consecutive times (such one program from 8:00 to 9:00 and another one from 9:00 to 10:00), the picture becomes momentarily distorted at the point where the first program ends and the second program begins. Is this a malfunction?

A. No. This is normal.

Q. Other than preventing further recording, what effect does removing the safety tab have?

A. It disables marking of index codes.

Q. Sometimes, during Index Search, the VCR can't find the program I want to see. Why not?

A. There may be index codes too close together.

Q. During playback, on-screen operational indicators sometimes jitter. Why does this happen?

A. If the condition of the tape being played back is not good, jittering of the video (including on-screen indicators) may occur.

RECORDING

Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the new recording. Why does this happen?

A. This is normal. It reduces distortion at the pause and resume points.

Q. Can the VCR indefinitely remain in the Record-Pause mode?

A. No. The VCR automatically goes to its Stop mode after 5 minutes to protect the heads. When paused during Instant Timer Recording (ITR), the VCR shuts off automatically after 5 minutes.

Q. What happens if the tape runs out during recording?

A. The VCR automatically rewinds it to the beginning.

TIMER RECORDING

Q. REC and TIMER remain lit on the front display panel. Is there a problem?

A. No. This is a normal condition for a timer recording in progress.

Q. Can I program the timer while I'm watching a tape or a TV broadcast?

A. Yes, but while you are setting the timer you won't see the tape's or broadcast program's picture as it is replaced by the on-screen menu. The audio from the tape or broadcast program will be present during the setting of the timer.

List Of Terms

This guide serves as a quick way to locate frequently used terms and on-screen display names.

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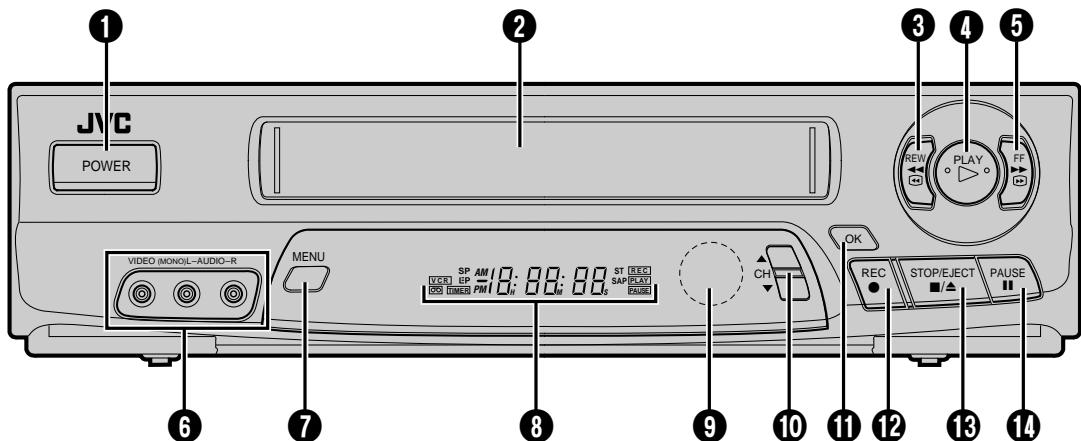
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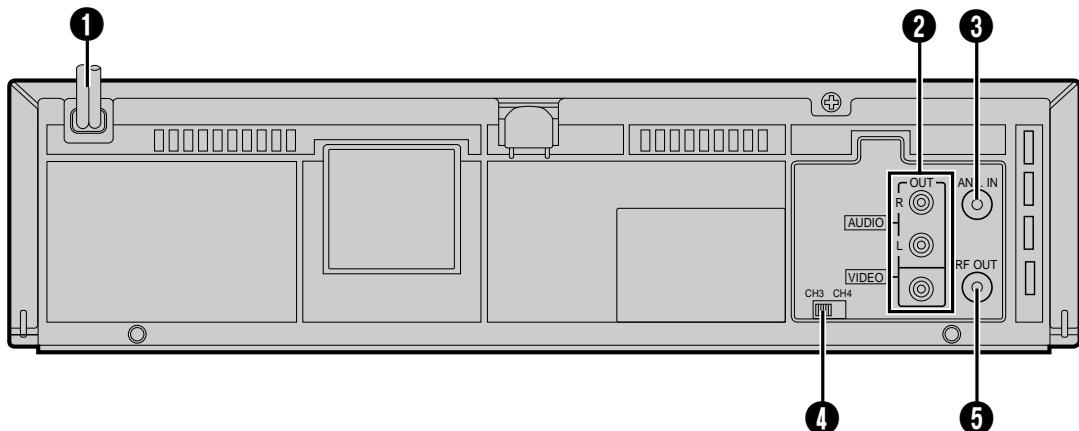
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FRONT VIEW



- ① Power On/Off Button (☞ pg. 8)
- ② Cassette Loading Slot
- ③ Rewind [REW] Button (☞ pg. 15)
- ④ PLAY Button (☞ pg. 15)
- ⑤ Fast-Forward [FF] Button (☞ pg. 15)
- ⑥ VIDEO/AUDIO Input Connectors (☞ pg. 34)
 - * The HR-A43U has only one AUDIO input connector.
- ⑦ MENU Button (☞ pg. 8)
- ⑧ Front Display Panel (☞ pg. 42)
- ⑨ Remote Control Sensor
- ⑩ Channel [CH] ▲▼ Button (☞ pg. 16)
- ⑪ OK Button (☞ pg. 8)
- ⑫ Record [REC] Button (☞ pg. 16)
- ⑬ STOP/EJECT Button (☞ pg. 15)
- ⑭ PAUSE Button (☞ pg. 17)

REAR VIEW



① Power Cord (☞ pg. 6)

② VIDEO/AUDIO Output Connectors (☞ pg. 33)

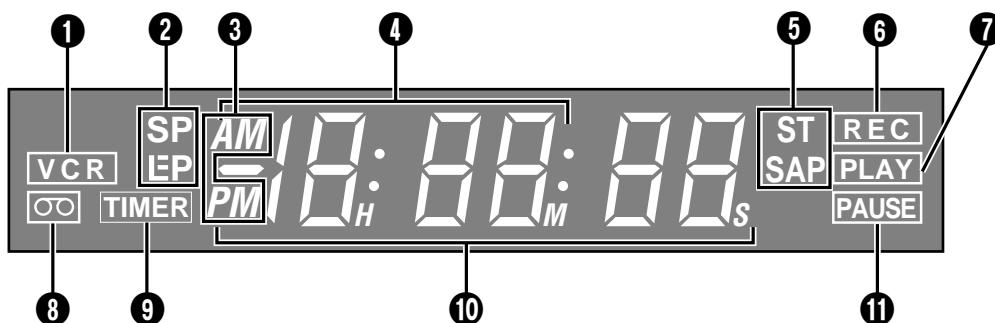
* The HR-A43U has only one AUDIO output connector.

③ ANT. IN Connector (☞ pg. 6)

④ Channel 3/4 Switch (☞ pg. 6)

⑤ RF OUT Connector (☞ pg. 6)

FRONT DISPLAY PANEL



① VCR Mode Indicator (☞ pg. 26)

② Tape Speed Indicators (☞ pg. 16)

③ AM/PM Indicators (☞ pg. 7)

④ Clock Display (☞ pg. 7)

⑤ Multi-Channel TV Sound Indicators (☞ pg. 27)
[HR-A63U Only]

⑥ Recording Mode Indicator (☞ pg. 16)

Instant Timer Recording Indicator (☞ pg. 32)

⑦ Play Mode Indicator

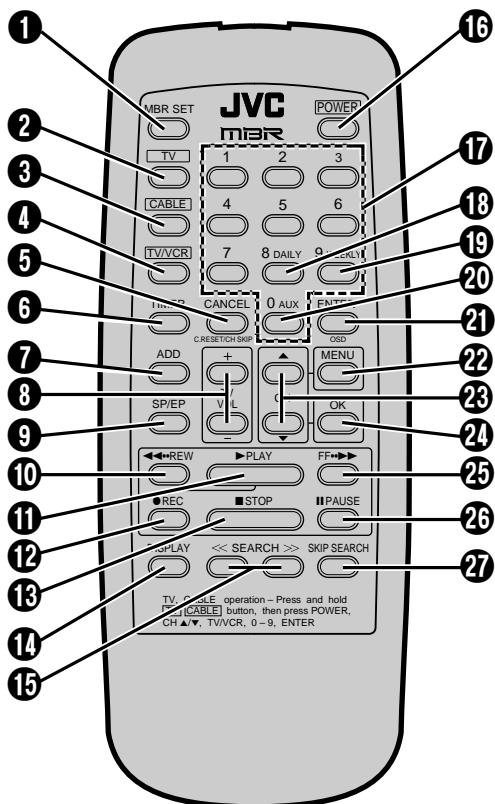
⑧ "Cassette Loaded" Mark

⑨ Timer Mode Indicator

⑩ Channel Display ["AU" for AUX mode]
Counter Display (☞ pg. 15)

⑪ Pause Mode Indicator

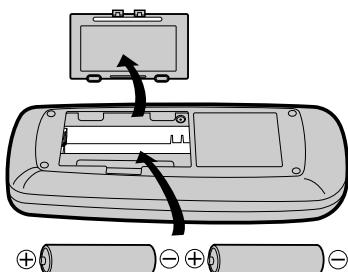
REMOTE CONTROL



- 1 MBR SET Button (☞ pg. 35)
- 2 TV Button (☞ pg. 35)
- 3 CABLE Button (☞ pg. 36)
- 4 TV/VCR Button (☞ pg. 26)
- 5 CANCEL Button (☞ pg. 30)
- 6 Channel [CH] SKIP Button (☞ pg. 14)
- 7 Counter [C.] RESET Button (☞ pg. 23)
- 8 TIMER Button (☞ pg. 29)
- 9 ADD Button (☞ pg. 14)
- 10 TV Volume [VOL] +/- Button (☞ pg. 35)
- 11 Recording Speed [SP/EP] Button (☞ pg. 16)
- 12 Rewind [REW] Button (☞ pg. 15)
- 13 PLAY Button (☞ pg. 15)
- 14 Record [REC] Button (☞ pg. 16)
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- 17 SEARCH Button (☞ pg. 17)
- 18 POWER On/Off Button (☞ pg. 8)
- 19 NUMBER Buttons (☞ pg. 16)
- 20 DAILY Timer Recording Button (☞ pg. 28)
- 21 WEEKLY Timer Recording Button (☞ pg. 28)
- 22 "AUX" Mode Select Button (☞ pg. 34)
- 23 ENTER Button (☞ pg. 16)
- 24 On-Screen Display [OSD] Button (☞ pg. 20)
- 25 MENU Button (☞ pg. 8)
- 26 Channel [CH] ▲▼ Button (☞ pg. 16)
- 27 OK Button (☞ pg. 8)
- 28 Fast-Forward [FF] Button (☞ pg. 15)
- 29 PAUSE Button (☞ pg. 17)
- 30 SKIP SEARCH Button (☞ pg. 22)

Installing Batteries

- 1 Open the battery compartment cover.
- 2 Insert 2 "AA"-size batteries (provided) in the direction indicated under the battery cover.
- 3 Replace the cover.



How To Use

The remote control can operate most of your VCR's functions.

- 1 Point the remote control toward the sensor window.
- 2 Press the appropriate operation button.
- 3 The maximum operating distance of the remote control is about 8 m.

NOTES:

- This remote control can also operate various brands of TVs and Cable Boxes. For instructions, ☞ pg. 35, 36.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

GENERAL

Power requirement	: AC 120 V~, 60 Hz
Power consumption	: 21 W (HR-A63U) : 19 W (HR-A43U)
Temperature	
Operating	: 5°C to 40°C (41°F to 104°F)
Storage	: -20°C to 60°C (-4°F to 140°F)
Operating position	: Horizontal only
Dimensions (W x H x D)	: 360 x 94 x 276 mm (14-3/16" x 3-3/4" x 10 -7/8")
Weight	: 3.4 kg (7.5 lbs)
Format	: VHS NTSC standard
Maximum recording time	
SP	: 210 min. with ST-210 video cassette
EP	: 630 min. with ST-210 video cassette

VIDEO/AUDIO

Signal system	: NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording/Playback system	: DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 240 lines
Frequency range	
Normal audio	: 70 Hz to 10,000 Hz
Hi-Fi audio	
(HR-A63U Only)	: 20 Hz to 20,000 Hz
Input/Output	: RCA connectors (IN x 1, OUT x 1)

TUNER

Tuning system	: Frequency-synthesized tuner
Channel coverage	
VHF	: Channels 2-13
UHF	: Channels 14-69
CATV	: 113 Channels
RF output	: Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced

TIMER

Clock reference	: Quartz
Program capacity	: 1-year programmable timer/8 programs
Memory backup time	: Approx. 10 min.

ACCESSORIES

Provided accessories	: RF cable (F-type), Infrared remote control unit, "AA" battery x 2
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Specifications shown are for SP mode unless otherwise specified. E. & O.E. Design and specifications subject to change without notice.

HOW TO LOCATE YOUR JVC SERVICE CENTER**TOLL FREE: 1-800-252-5722****Dear customer:**

In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-252-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

— JVC**JVC SERVICE & ENGINEERING
COMPANY OF AMERICA
DIVISION OF US JVC CORP.****FACTORY SERVICE CENTER LOCATIONS**

107 Little Falls Road
Fairfield, NJ 07004-2105
(201) 808-9279

1500 Lakes Parkway
Lawrenceville, GA 30243-5857
(770) 339-2522

705 Enterprise Street
Aurora, IL 60504-8135
(630) 851-7855

5665 Corporate Avenue
Cypress, CA 90630-4727
(714) 229-8011

10700 Hammerly Boulevard, Suite 110
Houston, TX 77043-2310
(713) 935-9331

2969 Mapunapuna Place, Suite 101
Honolulu, HI 96819-2000
(808) 833-5828

230 Eliot Street
Ashland, MA 01721-2377
(508) 881-5923

8192 W State Road 84
Davie, FL 33324-4611
(954) 472-1960

890 Dubuque Avenue
South San Francisco, CA 94080-1804
(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF US JVC CORP.
107 Little Falls Road
Fairfield, NJ 07004-2105

If you ship the product...

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.**CAUTION**

*To prevent electrical shock, do not open the cabinet. No user serviceable parts inside.
Refer servicing to qualified service personnel.*

ACCESSORIES

*To purchase accessories for your JVC product, you may contact your local JVC Dealer.
Or from the 48 Continental United States call toll free:
1-800-882-2345.*

LIMITED WARRANTY

CONSUMER VIDEO 1-90

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

PARTS	1 YR	LABOR	90 DAYS
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THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 252-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation and installation and removal for repair;
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); from the date of purchase);

There are no other express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.

41 Slater Drive
Elmwood Park, New Jersey 07407

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.: _____

Serial No.: _____

Purchase date: _____

Name of dealer: _____

MEMO

HR-A63U/43U

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41 Slater Drive, Elmwood Park, N.J. 07407